

Mr. H. N. M. / Sch

The CHEMIST AND DRUGGIST

for RETAILER — WHOLESALER — MANUFACTURER
OCTOBER 4, 1952

The

*Elegant Preparation
in the
Elegant Pack*

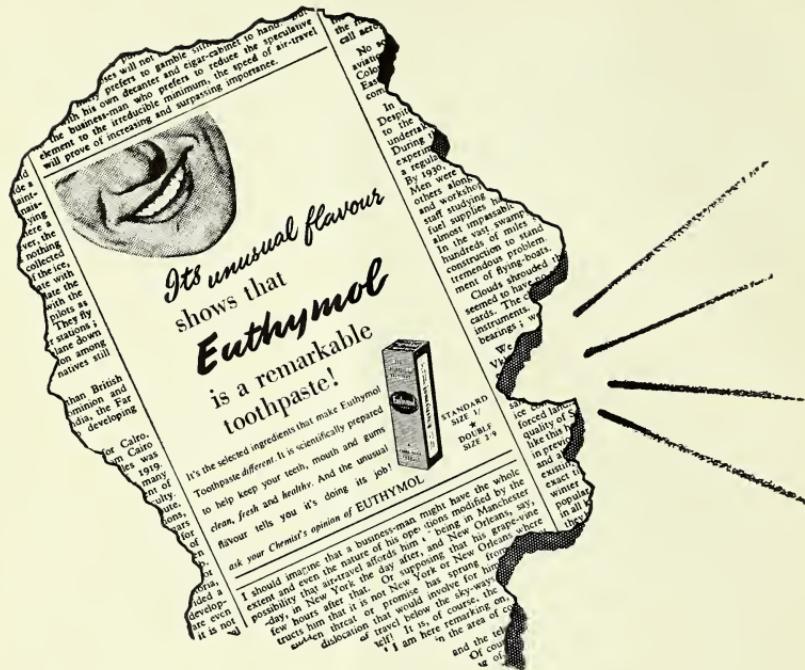


Allenbry's

EXTRACT OF

MALT with COD-LIVER OIL

ALLEN & HANBURY'S LTD LONDON E2



We're telling more people
about *Euthymol*

— advertising on a larger scale than ever before;

telling more people, in every walk of life, to consult

their Chemists about toothpaste. *You* know the value of Euthymol. By displaying and recommending it you can win many new, *regular* customers.

P.A.T.A.

PARKE, DAVIS & COMPANY LIMITED
Hounslow, Middlesex Inc. U.S.A.

Inc. USA



CHEMIST FINDS NEW WAY TO HELP COUNTERACT DROP IN SALE OF LUXURIES

JUST now, when more and more chemists are experiencing a fall in demand for certain luxury products, this experience of a chemist in Liverpool is especially interesting.

"For some time" he writes, "I had been wondering how to make up for the drop in demand for luxury goods. Then, one evening at home, last summer, I happened to notice a tin of Sanilav perfumed lavatory cleaner, and the idea flashed through my mind 'how would it go in the shop?'

"Here was a particularly attractive pack; a product closely linked with hygiene, so very suitable for a chemist; and—since it was made by the Ibclo people—I knew from experience that the quality was bound to be good.

"Anyway, I decided to try out a dozen tins in the shop. If they did not sell, there would be no harm done, we could quite easily use them up in the home.

Surprised by demand

"On delivery, I put a few tins on display on the counter, and to my surprise they started selling right away and in 3 or 4 days I found I had sold out. Since then Sanilav has settled down to a regular sale of between 2 to 3 dozen tins a month. It was certainly an experiment well worth trying, and I feel fairly convinced that Sanilav would enjoy a worthwhile sale in any chemist's shop."

Sanilav is the most efficient of all



★ *Women of all social classes are increasingly particular about keeping their homes, hygienically fresh and fragrant—hence the rapidly growing demand for Sanilav, the perfumed lavatory cleaner.* ★

lavatory cleaners, because it does four jobs in one. (1) Keeps the lavatory bowl and bend sparkling white right through. (2) Kills dangerous germs with its powerful disinfectant action. (3) Destroys unpleasant smells. (4) Leaves the air beautifully fresh and fragrant. All that's required with Sanilav is to sprinkle overnight and flush next morning.



Sanilav, the new "sprinkle" lavatory cleaner with the fragrant perfume, has a really attractive pack, which makes it ideal for display in a chemist's shop.

IF YOUR WHOLESALER CAN'T SUPPLY YOU, POST THIS COUPON

We would like your representative to call

Name.....

Address.....

Post in unsealed 1½d. stamped envelope to Ibclo Products Ltd., River Road, Barking, Essex.

Order your
C.E.Fulford products
NOW!

-and benefit from the

EXTRA BONUS

Offer open for 2 Months Only



ADDITIONAL DISCOUNT

over and above Best Display Parcel Terms will be allowed on orders value £6 or over, received during October and November 1952.

2½% ADDITIONAL DISCOUNT
over and above Best Display Parcel Terms will be allowed on orders value £4 — £6, received during October and November 1952.

**TO OBTAIN THIS EXTRA BONUS,
PLACE YOUR ORDER NOW AND DISPLAY
FULFORD PRODUCTS ON YOUR COUNTER OR
IN YOUR WINDOW DURING OCTOBER
AND NOVEMBER 1952.**

C. E. FULFORD LTD., CARLTON HILL, LEEDS. 2



This is the time to build up your stocks of the famous Fulford products—Bile Beans, Zam-Buk, Peps, etc. Demand is on the increase and there's AN EXTRA BONUS on orders received during October and November. Make a good Window and Counter Display of these products—you'll qualify for the bonus and make extra sales and extra profit.

SPECIAL NOTICE

We have taken over the distribution of CALENO Stabilized Calcium Aspirin. Orders may be sent now but they are not subject to the Autumn Bonus offer.

The Task and the Result

PROJECT CS. 221/CLB

To devise a pharmaceutical preparation for use in the treatment of chilblains which should :

- relieve irritation promptly
- reduce swelling and redness
- vanish into the skin with the minimum of rubbing on tender areas
- be non-greasy, non-staining and not unpleasant in odour.

The Result

* CHILBAN

CHILBLAIN CREAM

A new and efficacious preparation for relieving irritation and swelling arising from broken and unbroken chilblains · Non-greasy ; non-staining antiseptic ; contains no irritating rubefacients · Attractively packed in cartoned tubes supplied in display outers · Free Counter leaflets and Showcard.



RETAIL :
per tube 2/9
including tax.

TRADE : per doz. 18/-
plus 33½% purchase tax.

Evans Medical Supplies Ltd • Speke, Liverpool 19

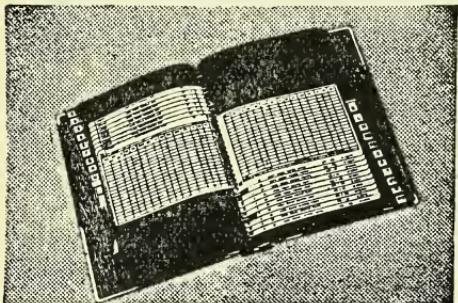
LONDON • NEWCASTLE • SWANSEA • Agents in Glasgow: The New Apothecaries Company Ltd

CHEMISTS!

HERE IS AN ALL-ROUND METHOD OF CONTROLLING ALL THE ACTIVITIES OF YOUR BUSINESS . . .

A NEW IDEA IN SIMPLIFIED ECONOMICAL ACCOUNT-KEEPING

A chemist's life is one of the hardest . . . so many lines to stock, so many suppliers, so many bills and such small margins of profit!



A chemist needs more book-keeping, stock-taking and clerical records than most other businesses. Yet your business won't support expensive clerical labour. So what is the answer?

First, a neat compact book that will hold hundreds of records. Second, *visible* records that can be seen without searching—and referred to or entered up in a flash.

What sort of records are needed?

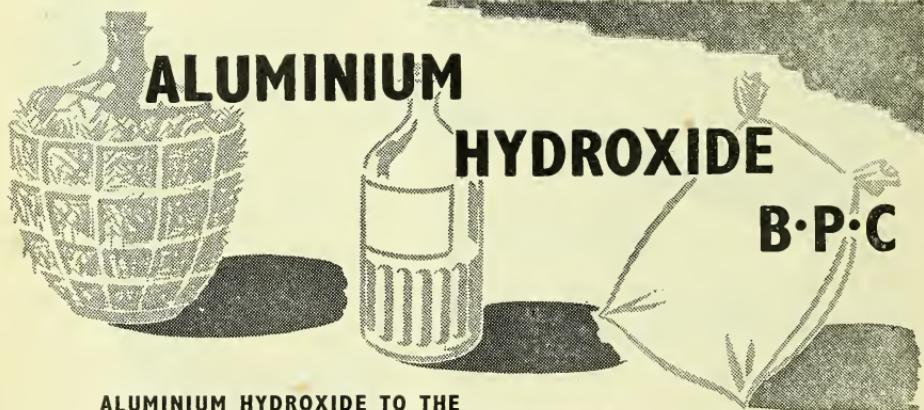
They vary, of course, with every business. But all chemists want stock-cum-purchase records, complete with prices, discounts, dates, order numbers, etc.—because such a record is the backbone of the chemist's business. He needs to see how stocks are, what lines need re-ordering, what lines are selling well or hanging fire. And he ought to keep track of what money he pays out and what comes in.

The whole difficult problem has now been investigated and the right records created for chemists by chemists. There is a Shannoleaf record especially designed for chemists. It has a visible edge showing the commodity, price, place in shop, etc., and signalled as to whether stocks are high or low, on order, overdue for delivery, etc., and there are columns for dates of orders, order numbers, quantities, prices (wholesale and retail), discounts, cash discounts, carriage, margin of profit, when deliveries are made . . . and so on.

Every good chemist who wants to eliminate inefficiency should learn all about Shannoleaf records. And this is easy enough. Just jot "Shannoleaf for Chemists" on your letter-heading for full details.

Shannon Systems

FIRST IN FILING
THE SHANNON LTD., 124 Shannon Corner,
New Malden, Surrey



ALUMINIUM HYDROXIDE TO THE
REQUIREMENTS OF THE B.P.C. . . .

Spence Aluminium Hydroxide B.P.C. is available in the normal gel and dried gel forms. A semi-granular grade is available specially for tabling.



Chemicals for Industry

PETER SPENCE & SONS LTD · WIDNES · LANCS · R.P.5025

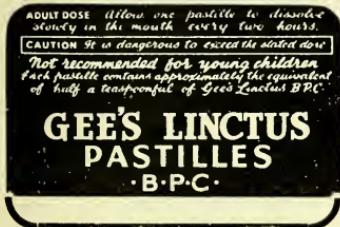
INDEX TO ADVERTISERS

Adelaide Grey	xviii	Daniel, H. E., & Co., Ltd.	iv
Advance Industries, Ltd. (Dispel)	10, 11, 12	Daniel, Richard, & Son, Ltd.	13
Allen Chlorophyll Co., Ltd., The	21	Dearborn (1923), Ltd.	xvi
Al'en & Hanburys, Ltd.	Front Cover	Distillers Co. (Biochemicals), Ltd.	33
Archie'd Optical Manufacturing Co., Ltd.	29	Dixon, Ltd.	30
Ayton, Saunders & Co., Ltd.	v	Dominion Steel Corporation, Ltd.	Leader Page
Bailey, R., & Son, Ltd.	iv	Duncan, Flockhart & Co., Ltd.	xi
Barker, R., Ltd.	xxii	Durham Duplex Razor Co., Ltd.	14
Beatson, Clark & Co., Ltd.	xxx		
"Belfast Telegraph"	xxiv		
Bio-Colloids, Ltd.	xxii	Eno, J. C., Ltd.	24, 25
Biorex Laboratories, Ltd.	30	Ephazone, Ltd.	x
Blyton Astley, Ltd.	xxvi	Evans Medical Supplies, Ltd.	3
Boehm, Fredk., & Co., Ltd.	iii		
Bowens Camera Repair Service	Col. Supp.	Fallowfield, Jonathan, Ltd.	36
British Drug Houses, Ltd., The	9	Fatol's, Ltd.	Leader Page
British Dyewood Co., Ltd., The	ii	Freder Bros. Paper Mills	vi
Brumleu, Wm. Chas.	ii	Freeman, William, & Co., Ltd.	xii
Burrough, James, Ltd.	Leader Page	Freudentheil, Smith & Co.	Leader Page
Burroughs Wellcome & Co.	31, 37	Fulford, C. E., Ltd.	2
Bush, W. J., & Co., Ltd.	xxvii		
Calmic, Ltd.	8	Gardiner & Co. (The Scotch House), Ltd.	xxiv
Carr's Cereal Products, Ltd.	xxii	Gardner, W., & Sons (Glos.), Ltd.	xxv
Colgate-Palmolive-Peet, Ltd.	xv	Gillette Industries, Ltd.	ix
Compressed Paper Packing, Ltd.	xxix	Glymiel Jelly	36
Container Recovery Service	xviii	Golden, Ltd. (Tress)	34
Continental Laboratories, Ltd.	xxxii	Goya (Men's Division)	xvii
Cooper Laboratory, Ltd.	xxx	Greyer, Brecheisen & Co., Ltd.	ii
Cosmic Preparations, Ltd.	32	Guest, Thos., & Co., Ltd.	5
Cox, Arthur H., & Co., Ltd.	Cover iv		
Cresswell Bros. Sponges	xvi	Halex, Ltd.	xix
Crosskills of Norwich	xxii	Harley, T., Ltd.	xxvi
Cussons, Sons & Co., Ltd.	Cover iii	Harris, Hart & Co., Ltd.	x
		Heinz Strained Foods	29

(continued overleaf)

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Profitable 'Tax-free' Lines



Retail
1/3
per tin



Retail
1/- per box.
 The improved
 formula that
 will please
 the customer.



- ★ All lines attractively packed—name and address on 6 doz. assorted.
- ★ Write for samples and prices, also list of 'SURE SHIELD' products.

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INDEX (cont.)

Herts Pharmaceuticals, Ltd.	xxxiv	Pentecon, Ltd.	xxiv
Hewlett, C. J., & Son, Ltd.	x	Pharmaceutical Laboratories Geigy, Ltd.	27
Ibco Products, Ltd.	1	Pharmax, Ltd.	viii
International Bottle Co., Ltd., The	xxiii	Pierson, Morrell & Co., Ltd.	iii
Jeffreys, Miller & Co., Ltd.	xxvi	Potter & Clarke, Ltd.	17
Jeyes Laboratories, Ltd.	xxxi		
Kellys, John (London), Ltd.	iv	Radiol Chemicals, Ltd.	xxviii
Kemball, Bishop & Co., Ltd.	20	Rankin Bros. & Sons	Leader Page
Kemsales, Ltd.	xxviii	Ransom, Wm., & Son, Ltd.	22
Kirby, H. & T., & Co., Ltd.	18, 19	Riddell Products, Ltd.	xx
Lantigen (England), Ltd.	28	Roche Products, Ltd.	7
Lastonet Products, Ltd.	30	Rooney, Robert A., & Sons, Ltd.	32
Lifeguard Products, Ltd.	xxi		
Lipton's Chemical Co., Ltd.	xi	Seurr, C. A.	Col. Supp.
Macdonald & Son, Ltd.	16	Shadeine Co.	xxii
Manesty Machines, Ltd.	35	Shannon, Ltd.	4
Mason & Pearson Bros.	14	Sherley, A. F., & Co., Ltd.	v
Max Factor (Hollywood & London Sales), Ltd.	15	Spence, Peter, & Sons, Ltd.	4
Mentasol Toothpaste	xiii	Stewart, Goodall & Dunlop, Ltd.	xxxii
Mysore, Trade Agent for London	xxvi	Stretch, Wilfred, & Co., Ltd.	xxx
Nervone	32	Summer, R., & Co., Ltd.	xxxi
Odedent Co., The	Leader Page	Surgical Hosiery Co., Ltd.	viii
Organon Laboratories, Ltd.	38		
Orridge & Co.	Col. Supp.	Taylor, Edward, Ltd.	26
Oxo, Ltd.	xxxiii	Tunnel Glucose Refineries, Ltd.	vi
Parke, Davis & Co.	Cover ii	Tye, John, & Sons, Ltd.	xx
Parnall & Sons, Ltd.	viii		
Peboc, Ltd.	vi	Vita-Yeast	24, 25
		Vitamins, Ltd.	6
		Waide, Thos., & Sons, Ltd.	13
		Wallis Laboratory, Ltd., The	Leader Page
		Wander, A., Ltd.	23
		Ward, Blenkinsop & Co., Ltd.	i
		Whiffen & Sons, Ltd.	vii
		Wilcox, Jozneau & Co., Ltd.	Leader Page
		Wilson & Mansfield, Ltd.	ii
		Wood Bros. Glass Co., Ltd.	xiv

***a palatable liquid preparation—
containing the principal vitamins
in an orange base***

A LIQUID PREPARATION intended for use in conditions in which the need for vitamins is above the average. The form in which it is presented makes it ideally suitable for children; also for adults in febrile illnesses, or in infectious or other conditions of the pharynx where there is difficulty in swallowing.

FORMULA One teaspoonful (3.5 cc) contains:

VITAMIN A	2,500 i.u.	VITAMIN C	10 mg.
VITAMIN B ₁	0.5 mg.	VITAMIN D	375 i.u.

PRICES

6 FLUID OUNCE:	3/9 each	Retail	Chemists	Wholesale
40 FLUID OUNCE:	24/- each	30/- doz.	26/3 doz.	14/- each

Vitavel Syrup

VITAMINS LIMITED, UPPER MALL, LONDON, W.6



*When
vitamin A
is indicated*

'Ro-A-Vit' synthetic vitamin A, issued as tablets each containing 50,000 international units, is a potent and reliable preparation which can be used whenever vitamin A treatment is necessary.

A product of the Roche research organisation, it is the first synthesis of vitamin A to be carried out on a commercial scale. By prescribing 'Ro-A-Vit' physicians can be assured that their patients will receive reliable vitamin A treatment without the accompaniment of fish oils and their attendant side-effects.

INDICATIONS FOR VITAMIN A

Prophylactic treatment of frequent recurrent respiratory tract infections particularly in children.

Nyctalopia, xerophthalmia, photophobia, keratomalacia.

Phrynodermia, ichthyosis, pityriasis rubra pilaris, acne vulgaris, kraurosis vulvae.

Atrophic rhinitis, ozoena.

ROCHE PRODUCTS LIMITED

'Ro-A-Vit'

BRAND

TRADE MARK

SYNTHETIC VITAMIN A

PACKINGS 'Ro-A-Vit' tablets
50,000 i.u. in packings of 30 and 200

TABNET

BRAND

DIHYDROXY ALUMINIUM
AMINOACETATE



In the Medical Management of Gastro-Duodenal Ulceration

TABNET incorporate the new buffering agent, dihydroxy aluminium aminoacetate, which exerts a rapid and prolonged control in conditions of gastric hyperacidity.

Formula : Each tablet contains :—

Dihydroxy aluminium aminoacetate 250 mgms.
Glycine 30 mgms

Full page advertisements will appear in leading Medical Journals.

General Practitioners in your area will be detailed by our medical representatives and will also be separately advised through the post.

TABNET are available in :—

Bottles of 100 ... 7/-d. plus P.T.
Bottles of 1,000 ... 62/-d. plus P.T.

**CALMIC
LIMITED**

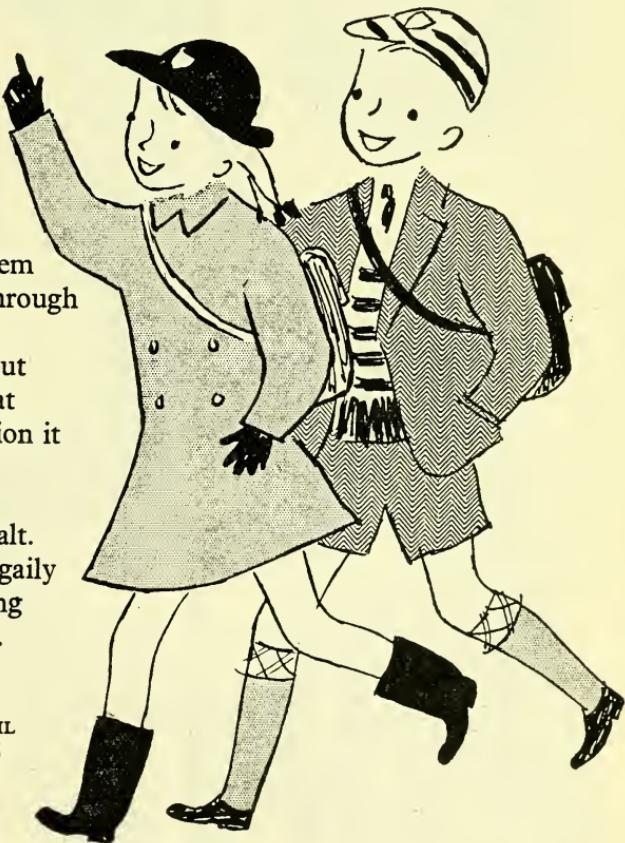
'RADIO-MALT'

for radiant health

At this time of year parents are thinking about their children's health. Children go back to school, fit from the holidays. How to keep them free from colds and ills through the coming months?

Wise parents know about Radio-Malt, recognise that children need the protection it gives.

This is the moment to remind them of Radio-Malt. Our new display unit—a gaily coloured cut-out measuring 10" x 9"—is now available.



	TRADE	RETAIL
Prices : 1 lb.	2/5½	3/6
" 2 lb.	4/2	6/-

Quantity terms on application

THE BRITISH DRUG HOUSES LTD. LONDON N.1

RM/T/7

DISPEL



sells
for
2/-

4 advantages DISPEL sells for 2/-

— a price *all* your
customers can afford !

DISPEL QUICK-WICK

— fingers never touch
the wick, it draws up
with the attached cap.

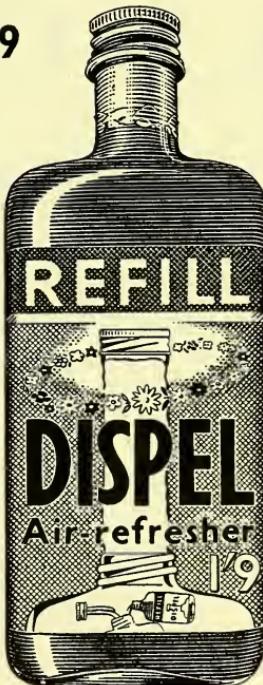


DISPEL REFILL 1/9

— a 1/9 refill gives 2
fillings at a cost of 10½d.
each! At this price
DISPEL will go on the
regular shopping list of
millions of women.

DISPEL will be advertised

heavily in the National
Press, including half-pages
in the DAILY MIRROR,
DAILY EXPRESS, DAILY
MAIL, etc.



DISPEL'S BONUS OFFER CLOSES OCTOBER 31ST.

As a special display inducement, every 3 dozen case of DISPEL (not refills) ordered by October 31st will include this display case of 6 bottles absolutely free.

6 FREE

bottles means 12/- extra cash on every case ordered before October 31st on top of your 25% margin. Get details from your wholesaler promptly.

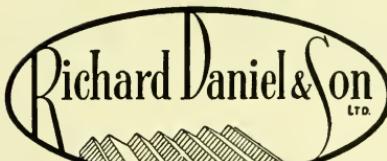
**WHOLESAVERS
WHO HAVE NOT
YET HAD DETAILS
PLEASE WRITE
AT ONCE**



ADVANCE INDUSTRIES LTD.

87 Regent Street, London, W.1 (Regent 3955) associated with the British Permanent Starch Co. Ltd.

FOR CHEMISTS



DRUGS

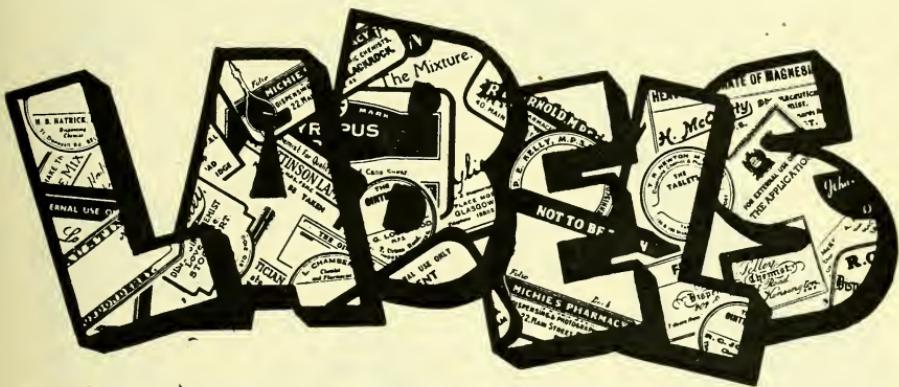
SUNDRIES

Manufacturing Chemists

PILLS • TABLETS
PROPRIETARIES

HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines)

BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)



Chemists' Labels

by

THOMAS WAIDE & SONS LTD
KIRKSTALL HILL

LEEDS

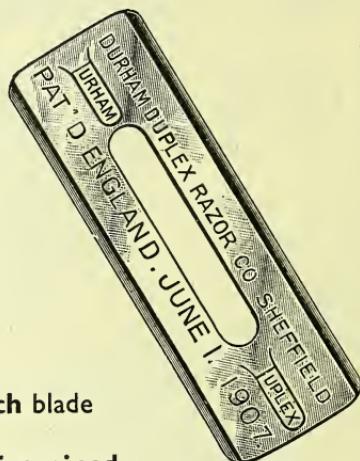
MASON PEARSON

This hairbrush with the famous name is the subject of a new advertising campaign in national and women's publications. Once again its unique qualities are being brought to public notice, and increased sales are sure to follow. To the trade those qualities are too well known to need fresh recommendation. Stockists are strongly advised to ensure that they have ample supplies to meet the forthcoming extra demand.



DURHAM-DUPLEX

RAZOR BLADES



Each blade

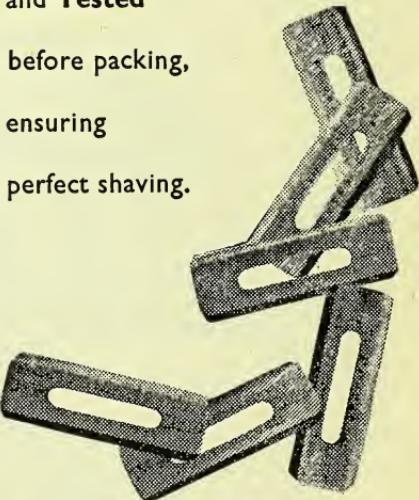
is Examined

and Tested

before packing,

ensuring

perfect shaving.



DURHAM-DUPLEX RAZOR

CO., LTD.

72 ARUNDEL STREET
SHEFFIELD, 1

Max Factor
HOLLYWOOD



A UNIQUE RECORD
IN
PRICE MAINTENANCE

Max Factor point out that the prices of their products, apart, of course, from the incidence of Purchase Tax, have never been increased—neither is there any intention to increase the present prices.

Max Factor Hollywood make this announcement in the belief that a definite statement of policy provides yet another instance of full support to the stockist.

Max Factor
HOLLYWOOD

for that Fresh, Young, *Natural* Look !

PAVE THE WAY

TO

BIGGER SALES

HELP YOURSELF! You can help yourself to greater sales of Silcot by making the fullest use of Silcot showcards. Put them in the window, on the counter, to remind your customers and bring you extra sales.

NEW SHOWCARDS

Here is the latest Silcot showcard. It is tasteful and attractive. It makes a point of Silcot comfort—the feature which matters most to women next to the competitive price.

MILLIONS OF WOMEN

read about Silcot in the leading magazines and they learn about Silcot comfort and safety. This ensures constant inquiries and sales for the retailer.



NOTE THIS!

Recent comment of a Belfast retailer:

“Your Silcot towels are going extremely well, and the greater number of my customers now ask for Silcot in preference to any other.”

—Belfast, 15th Sept., 1952

SILCOT

Cotton-Wool Sanitary Towels

A GOOD QUALITY Soluble Towel—Vensilla.

Made from pure cellulose, with loops. Standard size.

New **POTTER'S** display
to back up
advertising appearing
on **National** scale

ready
now!

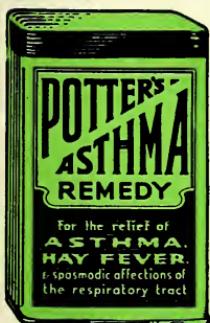
This striking new display box holds 1 doz. 3/- tins of Potter's Asthma Remedy.

Trade Price 22/- a dozen.

Show and sell more of this strongly-supported and reliable Remedy.

**ORDERS THROUGH
WHOLESALEERS ONLY**

By its very nature a sure source of regular repeat orders



POTTER & CLARKE LTD

RIVER ROAD, BARKING, ESSEX

Telephone: RIPPleway 3041

Established 1866

KIRBY

LONDON

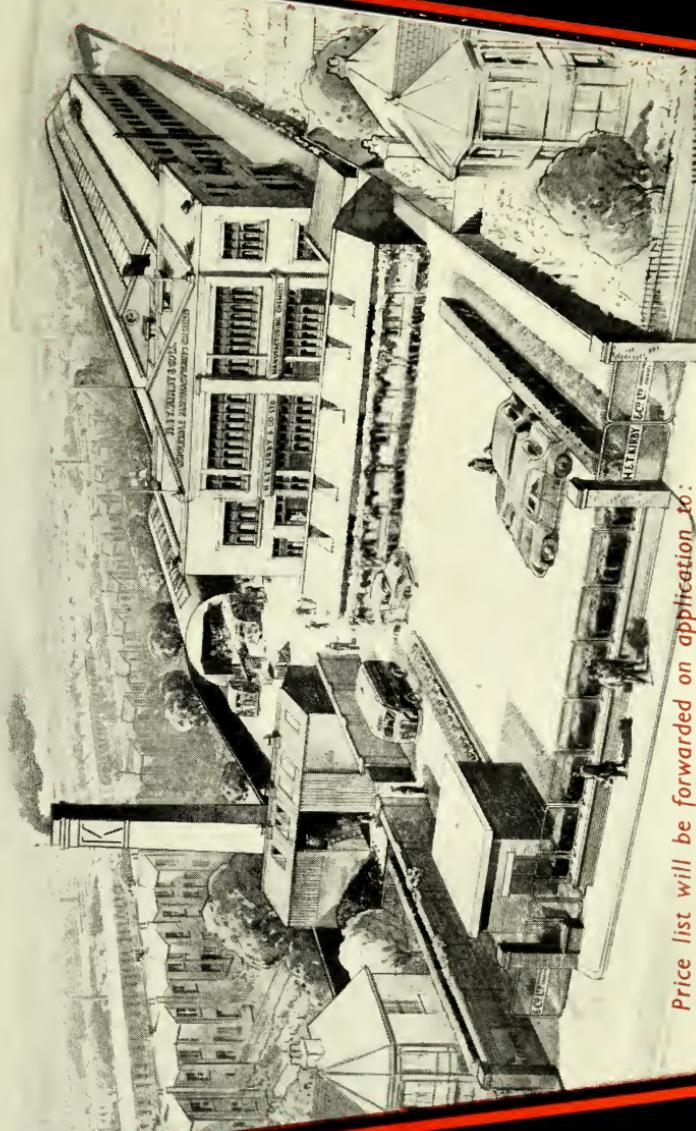
We are pleased to announce the completion of additional extensions to our factory, increased facilities now available enable us to offer to the trade a most comprehensive pharmaceutical service

PILLS • TABLETS • CAPSULES

PESSARIES • SUPPOSITORIES • SOLUTION TABLETS
PENICILLIN PRODUCTS • OINTMENTS FOR THE EYE
SOFT GLYCERIN LOZENGES • PACKED PHARMACEUTICALS
STERILE PRODUCTS

OWN MATERIALS PROCESSED • SPECIAL FORMULE PREPARED

Home and Export enquiries invited



Price list will be forwarded on application to:

H. & T. KIRBY & CO. LTD.

Manufacturing Chemists

BELTON ROAD • WILLESDEN GREEN • LONDON, N.W.2.

Code

Telegams

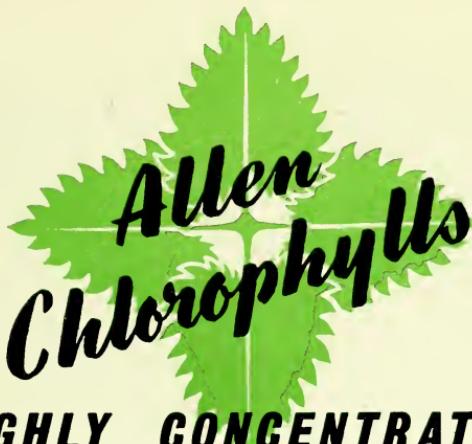
Phone

CALCIUM GLUCONATE
CITRIC ACID
CREAM OF TARTAR
ITACONIC ACID
ROCHELLE SALTS
TARTARIC ACID
LITHIUM SALTS

Est. 1870

Kemball, Bishop
& Company Limited

Crown Chemical Works, Three Mill Lane, Bromley-by-Bow, London, E.3.
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HIGHLY CONCENTRATED

(70% to 100% Sodium Chlorophyllin content)

Placing our research facilities and long experience of Chlorophyll manufacture freely at users' disposal, we welcome inquiries as to the best grade of Chlorophyll for any particular application.

For TABLETS · DENTIFRICES · MOUTH WASHES
 DEODORANTS · BREATH SWEETENERS · DRESSINGS
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 & CONFECTIONERY COLOURING etc. etc.

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OIL-SOLUBLE CHLOROPHYLLS
MEDICINAL CHLOROPHYLLS

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WHARF ROAD, LONDON, N.1

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 CLErkenwell 1000

Telegrams:
 Alclor, Nordo, London

Cables:
 Alclor, London



One of
Ransom's
peppermint
fields.

Ransom's Oil of Peppermint
owes its unsurpassed quality
to the care and skill which is
exercised at every stage of its
production.

*Quality
is born of Experience*

The finest vegetable drugs and galenicals come only from the finest plants. Cultivation of medicinal plants is an art that comes only from long experience. It is because Ransoms of Hitchin have specialised in drug growing for over a century that the name Ransom has become synonymous with unsurpassed quality in drugs and galenicals in all parts of the world.

*Actual growers of belladonna, henbane, foxglove, aconite
chamomile, peppermint and lavender*

Established 1846



WILLIAM RANSOM & SON LTD.
Hitchin Hertfordshire England

Why you should Sell

WANDER BRAND

MALT & COD LIVER OIL

BECAUSE of its unsurpassed quality and its ready acceptance by the public, Wander Brand Malt Extract and Cod Liver Oil is a product which the pharmacist can recommend with full confidence, and in his own best interests.

Wander Brand Malt Extract and Cod Liver Oil is outstanding in its field and its pharmaceutical excellence is recognized by physicians. The Cod Liver Oil used is the best obtainable and the Malt Extract is specially prepared by A. Wander Ltd., who are leading authorities on its manufacture. These two ingredients are combined in the proportions recognized by the medical profession. With its attractive appearance and toffee-like flavour, Wander Brand Malt Extract and Cod Liver Oil is thoroughly enjoyed by children and adults.

NOTE—Also supplied, if required, with attractive labels bearing your own name.

Attractive showcards available

For further details write to :

A. WANDER LTD.

42 UPPER GROSVENOR STREET,
GROSVENOR SQUARE, LONDON, W.I.

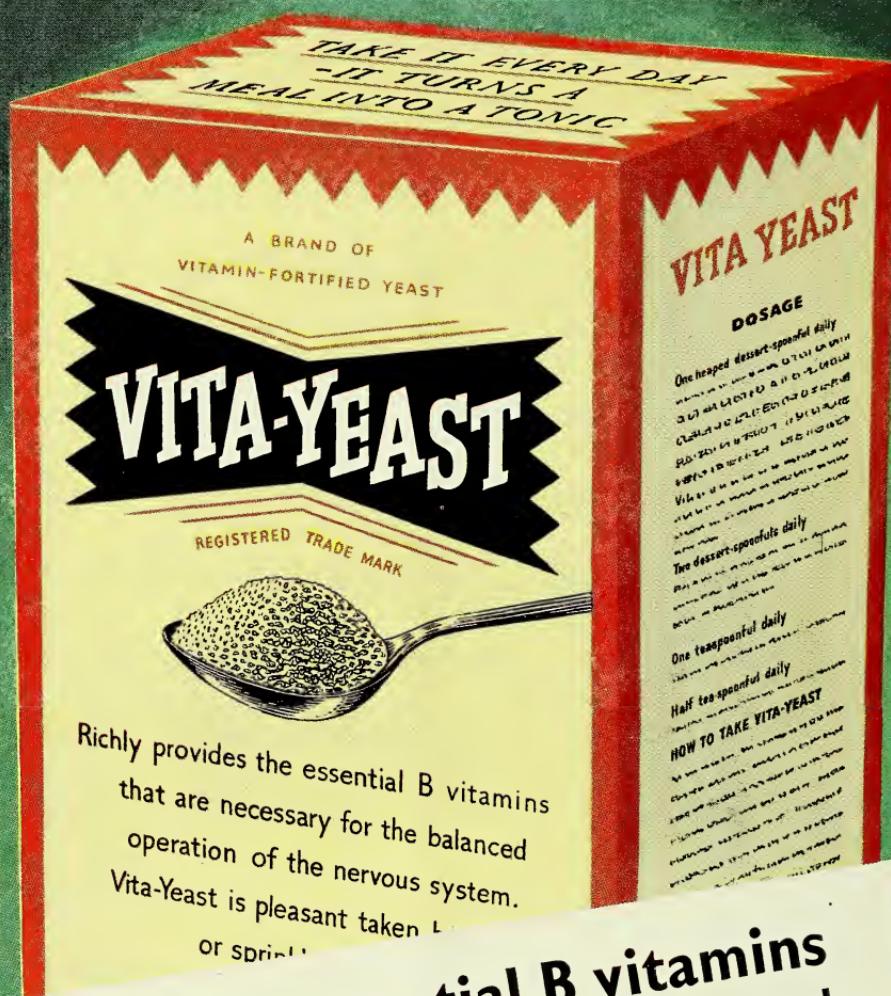
On the

P.A.T.A.

T.20



THE *NEW* FOOD SUPPLEMENT



Rich in essential B vitamins
for healthier life, steady nerves and
renewed energy

Be prepared for big sales

INTRODUCTORY BONUS GIVES YOU

74% PROFIT ON OUTLAY

A special Bonus Offer of 15 per cent over and above the regular terms is being made to retail chemists until October 31st in return for a 14 day window display of Vita-Yeast. For example here are two specimen Bonus Orders:

ORDER 'A'

1 doz. 3/- size (5 ozs.) | or
 $\frac{1}{2}$ doz. 5/6 size (10 ozs.) | equivalent
 Your net buying price . . . £1.19.8
 Your selling price £3.9.0

NET PROFIT

or 74% on outlay . . £1.9.4

ORDER 'B'

3 doz. 3/- size (5 ozs.) | or
 $\frac{1}{2}$ doz. 5/6 size (10 ozs.) | equivalent
 Your net buying price . . . £4.1.2
 Your selling price £7.1.0

NET PROFIT

or 74% on outlay £2.19.10



Order 'A' is the minimum which can be accepted to qualify for Bonus Terms.

**THIS ATTRACTIVE OFFER CLOSES
ON OCTOBER 31st**

Heavy advertising starts on November 17th in the National Daily, Provincial and Sunday papers, and in popular Women's Magazines, and Health papers.

THEY ALL BUY ...



Flexoplast
REGD. TRADE MARK

FIRST-AID
DRESSINGS
FLEXIBLE AND
WATERPROOF



For Cuts
Small Wounds
Burns • Abrasions
Bruises • Sore Heels



Obtainable from all wholesalers.

T.P. 189

A PRODUCT OF EDWARD TAYLOR LTD • MONTON • LANCs

BARBITURATES BY THE TON

A shot of the distillation column which forms part of the Barbiturate plant at the Geigy Works, Trafford Park.

Intensive research is ever expanding the Geigy range of Barbiturates. The growing demand is ever increasing the scale of their production.

Your enquiries are invited for:—

PHENOBARBITONE B.P.	·	PHENOBARBITONE SODIUM B.P.	·	BARBITONE B.P.	·	BARBITONE SODIUM B.P.
BUTOBARBITONE B.P.C.	·	AMYLOBARBITONE B.P.C.	·	CYCLOBARBITONE B.P.C.		
CYCLOBARBITONE CALCIUM	·	HEXOBARBITONE B.P.	·	METHYLPHENOBARBITONE B.P.		



PHARMACEUTICAL LABORATORIES GEIGY LTD.

Rhodes, Middleton, MANCHESTER

F.C.14

E

Lantigen 'B' sales drive producing *big extra sales*

Are you reaping the **full** benefit?

Take full advantage of thousands of pounds being spent on National advertising directing sufferers from Catarrh and Bronchitis to chemists' counters.

Display Lantigen 'B' where your customers can see it!

— make leaflets readily available . . . emphasise the fact that LANTIGEN 'B' is a dissolved oral vaccine treatment and is taken like ordinary medicine . . . point

out that although LANTIGEN 'B' costs one guinea plus 4/8 tax, the treatment works out at only a few pence a day.

★ 7/- PROFIT FOR YOU ON EVERY SALE

PLUS 5% display discount on all orders for 6 or more Lantigen vaccines to your selection.

Stock up to meet this new demand.

Counter displays and leaflets free from:—

Sole distributors:

J. C. GAMBLIES & CO. LTD.,
211 Blackfriars Road, London, S.E.1.

OVER 2,000,000 BOTTLES SOLD
THROUGHOUT THE WORLD

IT'S THE
SPRING ACTION
 THAT SELLS THE

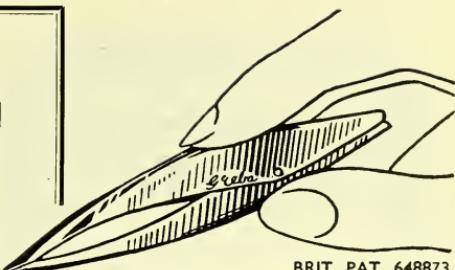
Greba TWEEZER

IT GRIPS THE MINUTEST
 ARTICLE WITHOUT TENSION

Trade Price

18/- DOZ. (Plus P.T.)

Packed in dozens for counter display



BRIT. PAT. 648873

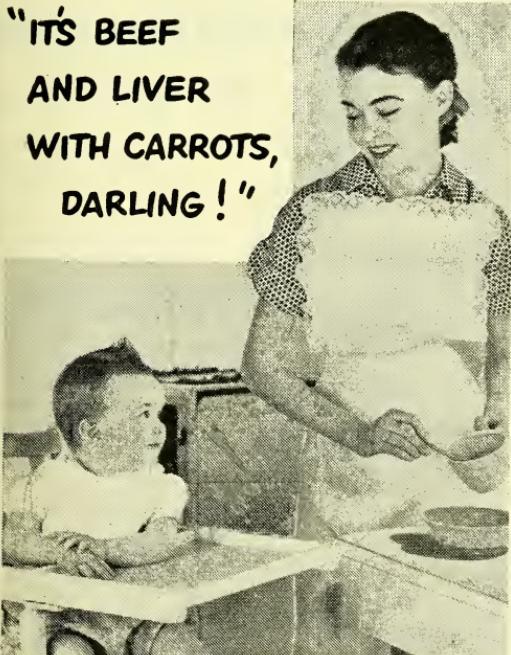
Women everywhere are welcoming this new improved patented tweezers, because it really does grip without effort or tension. The GREBA is British made from steel with heavy Chrome finish. Order from your usual Wholesaler.

Wholesale and Export Enquiries to :—

**ARCFIELD OPTICAL MANUFACTURING
 CO. LTD.**

(Light Engineering Section)
 53 Tottenham Court Rd. London. W.1

**"IT'S BEEF
 AND LIVER
 WITH CARROTS,
 DARLING!"**



Here's a headline
 and picture to catch
 every mother's eye

It will appear in 28 leading magazines, which are read by over 11,000,000 women! It is featured in the current advertisement for Heinz Strained Foods.

Heinz promotion has helped to raise Strained Foods sales by 4,000% since 1939. It helps to build your Strained Foods sales. The mothers reached are your customers.

 **HEINZ**

STRAINED FOODS

17 varieties: each 7d.

DIXOR

BEAUTY PREPARATIONS

IN EVER GROWING DEMAND

When you next order Velouty de Dixor Powder Cream include these new preparations. Display them side by side and create sales. Each preparation performs a special task in the art of achieving complexion beauty.

Velouty FOUNDATION CREAM

TUBES ONLY
Trade 7/2 doz. Retail 1/6 each

Velouty SKIN FOOD

TUBES ONLY
Trade 7/2 doz. Retail 1/6 each

Velouty CLEANSING CREAM

TUBES ONLY
Trade 7/2 doz. Retail 1/6 each

Velouty de DIXOR

The ORIGINAL combined POWDER CREAM

Tubes packed in attractive display outers of one dozen, and jars in display outers of half-dozen.

Shades :-

IVORY
NATURAL
PEACH
OCHRE
SUNGOLD



POTS

Trade 13/2 doz.
Retail 2/9 each

TUBES

No. 2	No. 3
6/- doz.	9/6 doz.
1/3 each	2/- each

DIXOR LTD.

ST. LEONARD'S WORKS, MORTLAKE, S.W.14

We invite your enquiries
and orders for

DRUGS, GALENICALS,
TABLETS, OINTMENTS,
SULPHA DRUGS,
THERMOMETERS,
HYPODERMIC NEEDLES,
SURGICAL PLASTERS,
SURGICAL DRESSINGS,
SUN GLASSES,
FACE FLANNELS,
CHEMISTS' SUNDRIES
at competitive prices

BIOREX

LABORATORIES LTD.

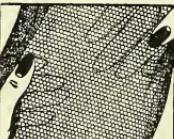
WHOLESALE AND MANUFACTURING CHEMISTS
51 EXMOUTH STREET, LONDON, E.C.1
Telephone : TERMINUS 9494 and 1431

Post orders executed promptly
Daily delivery service in the
Greater London Area

DEMAND GROWS AND GROWS...



MADE ONLY
TO MEASURE



More and more people are realising the unique advantages of a Lastonet surgical stocking which is made to measure, and is so fine as to be invisible under ordinary stockings.

If you want to share in this growing trade we will gladly send you a supply of measurement forms and display material.

Lastonet

E-L-A-S-T-I-C

FEATHERWEIGHT NET STOCKING

LASTONET PRODUCTS LTD., Carn Brea, Redruth, Cornwall.

To master malaria . . .

The satisfactory results already obtained with 'Daraprim' in the suppression and treatment of malaria indicate that it is likely to play a prominent part in the eradication of malarial infection in endemic regions. Notable features are :—

- ▶ High potency—each product contains only 25 mgm. of drug.
- ▶ Small dosage for treatment of acute attacks— $\frac{1}{2}$ to 4 products according to age.
- ▶ Small dosage for suppression— $\frac{1}{2}$ to 1 product according to age.
- ▶ Prolonged suppressive action—one weekly dose.
- ▶ Has been shown to prevent the development of gametocytes in the mosquito, and to be capable of interrupting the malarial cycle.
- ▶ Unpleasant or toxic side effects have not been reported.
- ▶ Quite tasteless—ideal for children.

Further details of this new compound, which is issued as 25 mgm. compressed products in packs of 6, 30 and 1000, will gladly be sent on application to 183-193, Euston Road, London, N.W.1.

'DARAPRIM'
PYRIMETHAMINE

BRAND

ISSUED IN FRANCE AND THE FRENCH EMPIRE AS 'MALOCIDE' BRAND PYRIMETHAMINE



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

Associated Houses:

NEW YORK • MONTREAL • SYDNEY • CAPE TOWN • BOMBAY • BUENOS AIRES • CAIRO • DUBLIN

ROONEY

shaving brushes



Nationally
advertised
in

THE DAILY MAIL
THE EVENING NEWS
THE DAILY EXPRESS
THE NEWS CHRONICLE
THE GLASGOW EVENING TIMES
THE MANCHESTER DAILY DISPATCH

ROONEY shaving brushes are first-class value, handsome brushes with real customer appeal. Christmas is not far off; Order NOW to ensure early delivery.

Every brush GUARANTEED

R.A. **ROONEY** & sons Ltd
makers of fine **brushes** for over 150 years
LONDON E.17



Every day the 'NERVONE' message goes out to customers in your area!

NERVONE

REGD

BUILDS UP NERVE POWER

CONSISTENT advertising has created a lively demand for 'NERVONE' the new biochemic formula, and still more extensive advertising is now planned. More and more of your customers will ask for 'NERVONE' and 'repeats' and recommendations flow freely from initial orders. It pays to stock and display 'NERVONE'

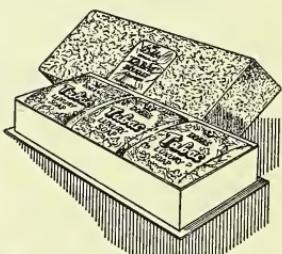
One Shilling and Sevenpence PROFIT on Each Sale!

NEW ERA LABORATORIES LTD.
Cecil House, Holborn Viaduct, London

Dobb's
TABAC

PERFUME
TOILET-ESSENCE
LUXURY SOAP

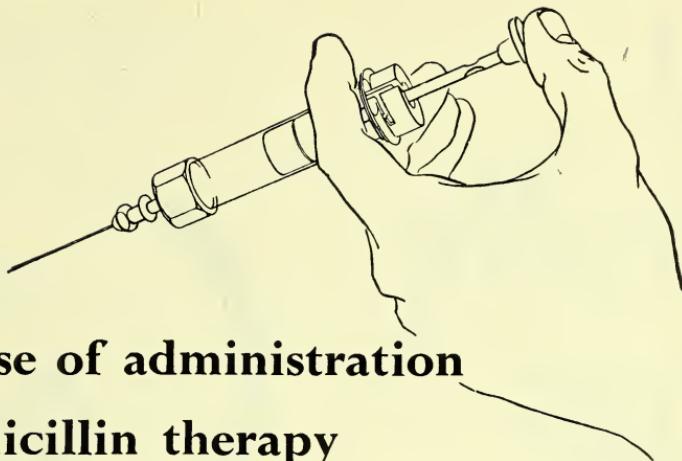
*Price List and
samples on request.
Special Bonus-terms.*



*From your
wholesaler
or direct from
the Manufacturers :*

**DOBBS
OF LONDON**
Telephone:
ARCHway 6543

192 SEVEN SISTERS ROAD, LONDON, N.4



For ease of administration in penicillin therapy

'Distaquaine' brand preparations of procaine penicillin G for administration in aqueous suspension are designed to make penicillin therapy more convenient to practitioner and patient. The prolonged effective action of procaine penicillin G makes frequent injections unnecessary. In the majority of infections single daily injections are adequate.

'Distaquaine' brand preparations are easily prepared and administered. There is little or no pain on injection and the equipment is easily cleaned after use.

'DISTAQUAINE' G vials of 300,000, 900,000 and 3,000,000 units
brand

'DISTAQUAINE' FORTIFIED vials of 400,000 and 1,200,000 units
brand

'DISTAQUAINE' SUSPENSION vials of 10 ml. (300,000 units
brand per ml.)

Distributed by ALLEN & HANBURY'S LTD. BRITISH DRUG HOUSES LTD.
BURROUGHS WELLCOME & CO. EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

★ 'DISTAQUAINE', a trade mark, is the
property of the manufacturers

THE DISTILLERS COMPANY
(BIOCHEMICALS) LIMITED

It really has caught on!

Every care was taken in *advance* to make this a winning line. Product, pack and advertising were planned together—to ensure that a good product was strikingly presented and backed with the strongest possible selling effort. That policy is paying—big sales are being made all over the country and the selling pressure is being kept up. 11,000,000 women are reading about TRESS regularly in the biggest circulation Women's journals. Have you ordered from your wholesaler yet?

TRESS

SETS, CURLS, CONDITIONS the hair

Marketed by: GOLDEN LIMITED, 2/4 DEAN STREET, LONDON, W.1. Tel: GERrard 4926

*The new line in the
new, unique pack—
shake it—and watch
its fascinating Silken
Swirl!*



TRADE PRICES

Sells at 2/11d. per bottle,
giving many applications.

Your cost: 14/3d. per dozen
plus 100% purchase tax.

Your profit: 6/6d. per dozen.



MANESTY

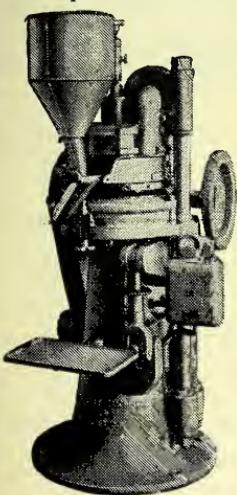
TABLET-MAKING MACHINERY

Known for excellence throughout the world

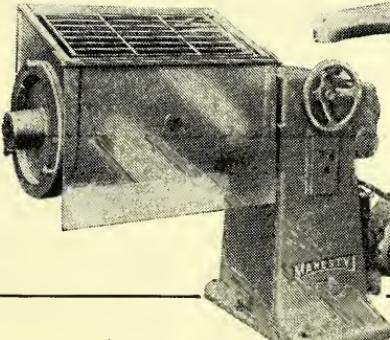
More and more tablet makers are turning to MANESTY precision-built tablet-making machinery because of the excellence in design and construction. MANESTY machinery is used in over 60 countries. Each machine is the product of British skill and craftsmanship and results from the long and specialised experience of the MANESTY organisation. The resources of the MANESTY research and technical departments are at the disposal of manufacturers faced with problems of tablet production.

Have you this book? "Tablet Making"—An authoritative volume by A. Little & K. A. Mitchell. 123 pp. 47 illus. 31 formulæ. Cloth bound 15/- net. Post free.

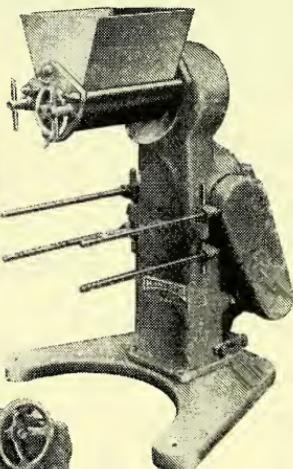
Right: CP2 Vari - Speed Coating Pan. Rotation speeds 12-36 r.p.m. Equipped with self-contained hot air blower. 30" pan.



Above: D3A Rotary tablet machine. Fully guarded. Constant or variable speed. Output 346 per min. Size up to 1" diam.



Below: Rotorgran Oscillating Granulator. Capacity 150 lb. moist powder per hour; 1300 lb. dry powder per hour.



Left: "H" Stainless Steel Mixer. Powder Capacity 100 lb. Transparent plastic lid. Safety guard.

MANESTY MACHINES LTD. DEPT. 5, SPEKE, LIVERPOOL, 19

Telephone: Hunts Cross 1972 Telegrams: Manesty, Liverpool 19

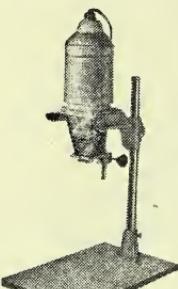
TABLET MACHINES · COATING PANS · GRANULATORS · MIXERS · AUTOMATIC WATER STILLS

Popular priced 'GNOME' ENLARGERS

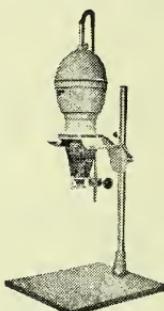
... A QUICK SELLING RANGE FOR THE WINTER



DELTA de LUXE
£21 2 0 without lens
Wray lenses also available



STIRLING
with doublet lens £12 9 4



ALPHA de LUXE
with doublet lens £15 14 8



JONATHAN FALLOWFIELD LTD.

74 NEWMAN ST. LONDON W.I. MUSEUM 7401-2-3

JF19B



GLYMIEL JELLY

BONUS PARCELS

SMALL SIZE TUBES

PER DOZ.
(plus purchase tax) **8'6**

LARGE SIZE TUBES

PER DOZ.
(plus purchase tax) **12'8**

BONUS 13 TO THE DOZEN FOR 14 DAYS' WINDOW DISPLAY

4 BONUS PARCELS TO CHOOSE FROM

(13 TO THE DOZEN IN ALL CASES)

PARCEL "A"

8 doz. 1/8d. size

PARCEL "B"

12 doz. 1/8d. size
1 doz. 2/6d. size

PARCEL "C"

9 doz. 1/8d. size
3 doz. 2/6d. size

PARCEL "D"

6 doz. 1/8d. size
6 doz. 2/6d. size

OSBORNE, BAUER & CHEESEMAN LTD.

FULL DETAILS FROM

SANGERS LTD., 258 EUSTON ROAD, LONDON, N.W.1

BRANCHES AT BRISTOL AND NEWCASTLE

From first to last...

INTO the making of all B. W. & Co. compressed products for dispensing goes a lifetime of skill and experience. Firm, smooth and without blemish, strong to resist jarring in transit, yet quick to disintegrate in water, each product carries evidence of craftsmanship. B. W. & Co. Tabellæ retain their supreme qualities from first to last. Nor need you question the cost. All are offered at prices within the tariff figure.

'B.W.&CO.' TABELLÆ

FOR DISPENSING



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

Tipping the scales in the patient's favour . . .

(METHYLANDROSTENEDIOL. ORGANON)

Specific treatment of wasting diseases is considerably assisted by Stenediol.

Stenediol promotes weight, improves muscle tone and builds tissue by ensuring maximum retention of protein from food intake.

- ORALLY ACTIVE
- NO SIDE EFFECTS
- NO GASTRIC DISTURBANCE

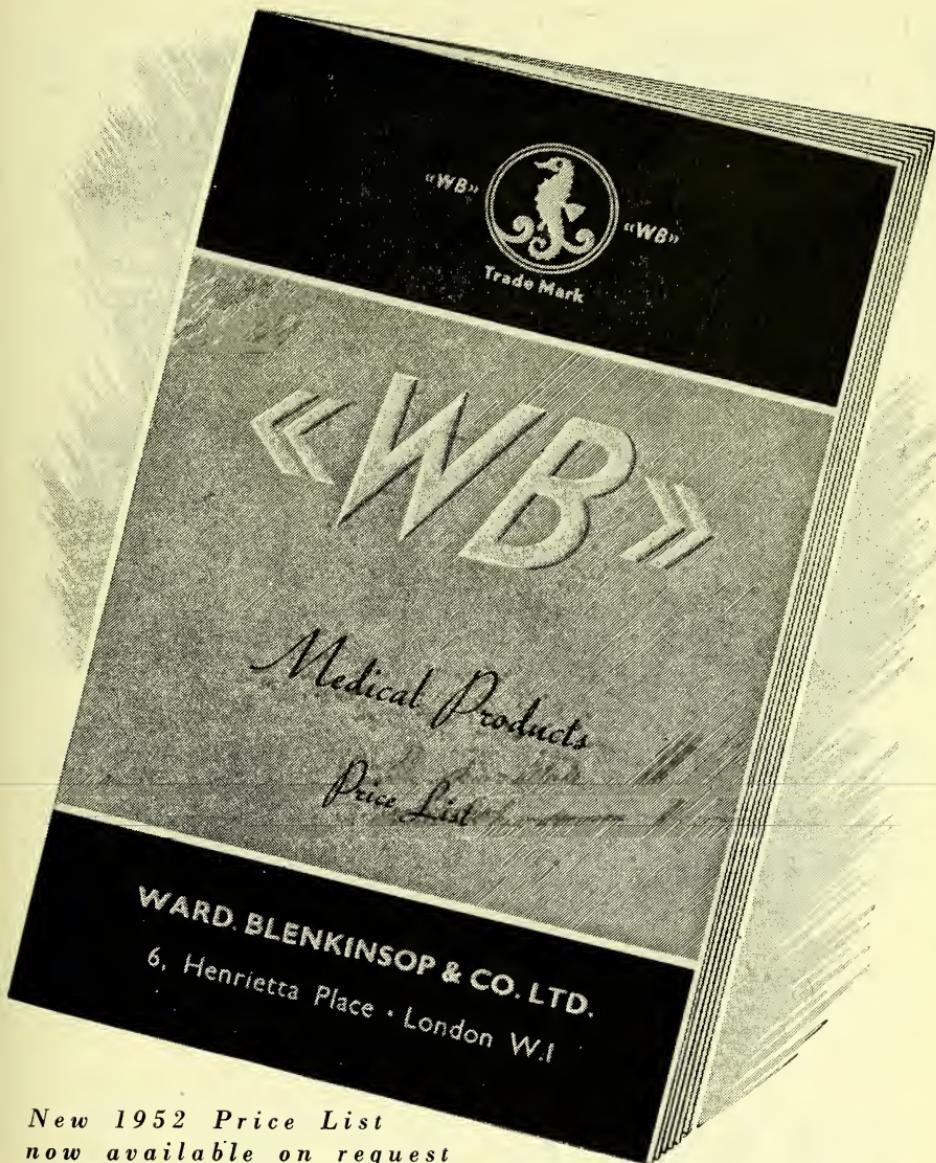
In two strengths :

10 mg. — packs of 25, 100, 250, 500, 1000
50 mg. — packs of 25, 100, 500, 1000

Price List on request



ORGANON
LABORATORIES LTD
BRETTENHAM HOUSE, LANCASTER PLACE, LONDON, W.C.2
Tel. : TEMple Bar 6785/6/7, 0251/2. Grams : Menformon, Rand, London.



New 1952 Price List
now available on request



WARD, BLENKINSOP & CO., LTD.

6 HENRIETTA PLACE, LONDON, W.1.

Makers of Ekammon for Safer Salicylate Therapy

AUSTRALIAN
EUCALYPTUS OIL. B.P.
(70/75%) (80/85%)

MENTHOL CRYSTALS
(Chinese and Brazilian)

PEPPERMINT OIL
(M. Arvensis and M. Piperita)

AGAR AGAR

REFINED CAMP�OR
(Powder, Slabs and Tablets)

CITRIC ACID B.P.

TARTARIC ACID B.P.

ESSENTIAL OILS

DRUGS, GUMS AND
WAXES

Wm. Chas. BRUMLEU Ltd
IMPORT — EXPORT

Established 1854

4-5 HOGARTH COURT, FENCHURCH ST.,
E.C.3 Tel.: MANSion House 3150—2930



N.V. SOCIETEIT VOOR
CHEMISCHE INDUSTRIE
“KATWIJK”
KATWIJK - AAN - ZEE
HOLLAND

Producers of:

CYCLOBARBITONE (ACID & CALCIUM SALT)
PENTAMETHYLENETETRAZOL
(LEPTAZOL. BP)
DIPHANTOINE (PURE, SODIUM, CALCIUM)

SULPHA drugs

London Agents:

GREYER, BRECHEISEN & CO., Ltd.
BUSH LANE HOUSE, CANNON STREET,
LONDON, E.C.4. Telephone: MAN 9030

Bombay Agent :
STANDARD DRUG & CHEMICAL CO.,
174 Hornby Road, Fort, Bombay

Calcutta Agent :
H. D. NAG, 36 Beniatala Lane, CALCUTTA

Madras Agent :
THE DOLLAR CO., 337 Thambu Chetty St.,
B G.T. MADRAS

BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia by the largest distillers and refiners of Eucalyptus Oils in the world.—W. K. BURNSIDE, PTY., LTD., MELBOURNE, AUSTRALIA

80/85% B.P.

Oil Euc. Dives 40/45%.

Oil Euc. Citriodora

70/75% B.P.

Piperitone 90/95%

Oil Euc. Phellandra

.... Phellandrene

UNIFORMITY OF QUALITY CONSISTENCY OF ODOUR

Agents for U.K.: WILSON & MANSFIELD, LTD., 15 Philpot LANE, LONDON, E.C.3

Phone: MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams : WYFIELD, LONDON

TANNIC ACID AND DERIVATIVES

(Bulk
Supplies
Only)

THE BRITISH DYEWOOD COMPANY LIMITED
19 St. VINCENT PLACE GLASGOW, C.1

Is Chlorophyll on your research programme?

CHLOROPHYLL may not be "Green Gold", but executives responsible for research should be conscious of the many potential uses.

A vast amount of scattered research has been carried out in connection with the position of CHLOROPHYLL in medicine. As far back as 1851 Verdeil (a) noted the connection between CHLOROPHYLL and Hæmoglobins. After the first world war Burgi (b) demonstrated its properties in the stimulation of tissues; and in the United States work has been done to demonstrate the effectiveness of CHLOROPHYLL in ointment for healing wounds. Westcott (c) discovered the deodorising properties of chlorophyllins taken internally and his conclusions were borne out by Dijkstra (d) in Holland. In the dental

field CHLOROPHYLL has been incorporated in oral cleansing preparations and shown to be efficacious in inhibiting dental diseases.

These facts will indicate many possible lines of research and we would be pleased to supply samples of any of our products for this purpose, and to put your chemists in touch with available references.

REFERENCES:

- (a) F. VERDEIL, Compt. rend., 1851, 33, 689.
- (b) E. BURGI, Das Chlorophyll als Pharmakon. Leipzig 1932.
- (c) F. H. WESTCOTT, N.Y. State J. Med. 1950, 50, 689.
- (d) B. K. S. DIJKSTRA, Deodorising effects of Chlorophyll.

Available in Oil Soluble Paste, suitable for colouring soaps, etc. Also in Water Soluble pastes and powders. Purities assayed by the Spectrophotometric method evolved by the British Chlorophyll Company. Full details available on request.



FREDK. BOEHM LIMITED · 19 BENTINCK STREET, LONDON, W1 · TELEPHONE WELBECK 7933

ENQUIRIES INVITED FOR

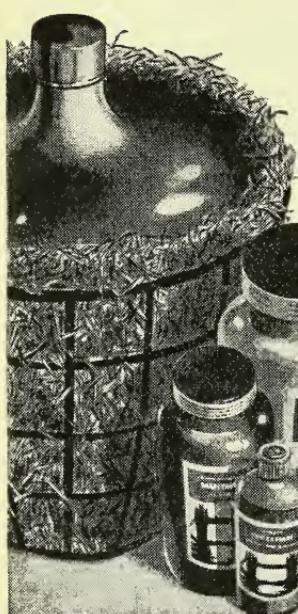
QUINALBARBITONE SODIUM

Manufactured by

PIERSON, MORRELL & CO. LTD.
THE ORIGINAL BRITISH ASPIRIN MAKERS
BARNET, Herts

Telegrams: Pierson Morrell Earnet

Telephone: BARnet 0723



In the balance

The dispenser knows how much depends upon scientific exactness—on complete assurance of purity and constant standards. All will ultimately be 'weighed in the balance' for he knows how faithfully he can rely on the products of H.E. Daniel Ltd. to enhance his reputation.

H·E·DANIEL LTD



MANUFACTURERS, DISTILLERS AND EXPORTERS OF—
ESSENTIAL OILS, FLAVOURING ESSENCES, PERFUME COMPOUNDS,
CRUDE DRUGS, BALSAMS, GUMS, SPICES, AROMATIC CHEMICALS,
FINE CHEMICALS AND MEDICINAL EXTRACTS.

ST BERNARD WORKS · STONEY LANE · UPPER NORWOOD · LONDON SE19
TELEPHONE LIVINGSTONE 2187-9 · TELEGRAMS "HANSEDA" LONDON

AN ALL COTTON WOOL PRODUCT OF REPUTE

ConSolute
Patent No. 410702
(Registered)

SUPERFINE QUALITY
ALL WOOL SANITARY TOWELS

LOOPEd ENDS
NON-ABSORBENT BACK
WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.
SURGICAL DRESSINGS MANUFACTURERS
DYSART STREET, GREAT MOOR, STOCKPORT
Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

JKL
**ERGOT
OF
RYE**

★
prompt and forward

★
and all other
Botanicals, Gums, Waxes,
Essential Oils and Spices

JOHN KELLYS (LONDON) LTD.
Gresham House, 24 OLD BROAD STREET, E.C.2
Telephone: London Wall 4882, 6585, 6586
Telegrams: "Ergotine, Stock, London"
Branches in New York and Hamburg

SHERLEY'S FAMOUS TONIC AND CONDITION POWDERS

now in TABLET FORM

Demand will be bigger than ever
— so stock up well

SHERLEY'S CONDITION POWDER TABLETS are the famous SHERLEY'S TONIC & CONDITION POWDERS in TABLET form. A good old friend in a new guise . . . and they are much easier to give. Sales are BIG now—and they'll be bigger every month. Maintain good stocks—and see your profits grow.



In 3 strengths :

SMALL—for puppies and toy dogs under 10 lbs. in weight. MEDIUM—for dogs 10-35 lbs. in weight.
LARGE—for dogs over 35 lbs. in weight.

In two sizes to retail at 9d. & 2/- per packet

SHERLEY'S CONDITION POWDER TABLETS

Orders to : A. F. SHERLEY & CO. LTD., GREAT WEST ROAD, BRENTFORD, MIDDX.



SURGICAL DRESSINGS

complete range

means

AYRTON SAUNDERS & CO. LTD
LIVERPOOL



**The Silky Soft Absorbent
Tissue that is preferred**

Vanity
HANKIE TISSUES
RETAILS FROM 1/6d.

Tissues have come to stay—it's just a case of selling the **BEST** to make and keep customers. **VANITY** are produced by **THE PAPER SPECIALISTS**—packed attractively and come to you in display cartons worthy of your windows and counters.

POCKET PACK for Travel, School, etc.
(24 large size White Tissues) 4d.
In the carton that does not disintegrate in use
BOUDOIR CARTONS (100 in White or
assorted Pastel colours) or Cellophane Wrapped
100 and 180; assorted shades if required.

FREEDER BROTHERS PAPER MILLS
BRIMSDOWN, ENFIELD, MIDDLESEX

Telephone : Howard 1847 (3 lines)
Telegrams : Sylkocrepe, Enfield, Middlesex

PEBOC LTD
MANUFACTURERS OF
VITAMIN D₃

Enquiries

to

SALES OFFICE.
629, TOWER BUILDING,
WATER STREET,
LIVERPOOL. 3.

LABORATORIES · GREENFORD · MIDDX.

TUNGLOSE
BRAND
PURE MEDICINAL
POWDERED GLUCOSE
(Dextrose Monohydrate)

Ask your Wholesaler



**TUNNEL GLUCOSE
REFINERIES LTD.**
Kirkman House,
54a Tottenham Court Rd., London, W.I
Telephone : Langham 6972/7

Works : Tunnel Avenue, Greenwich



**ESSENTIAL OIL OF
CLOVES**

Distilled from
Zanzibar Clove Buds

OIL OF ALMONDS

Cold pressed from
Sweet Almonds

WHIFFEN'S

FINE CHEMICALS

WHIFFEN & SONS LTD., FULHAM, LONDON, S.W.6
Telephone : RENown 3416. Telegrams : Whiffen, Walgreen, London

PLANNED TO SELL MORE

YOU can sell more, quickly and simply, by installing Shomore Equipment. Start with a single Shomore unit and add others as your profits grow.



'SHOMORE' DISPLAY

WRITE NOW FOR FREE LITERATURE

PARNALL & SONS LIMITED • LODGE CAUSEWAY • FISHPONDS • BRISTOL

'SURCO'
SURGICAL
ELASTIC
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SEAMED, SEAMLESS,
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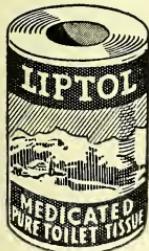
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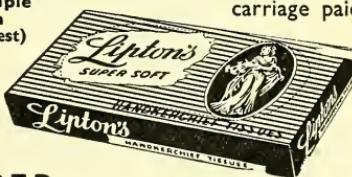
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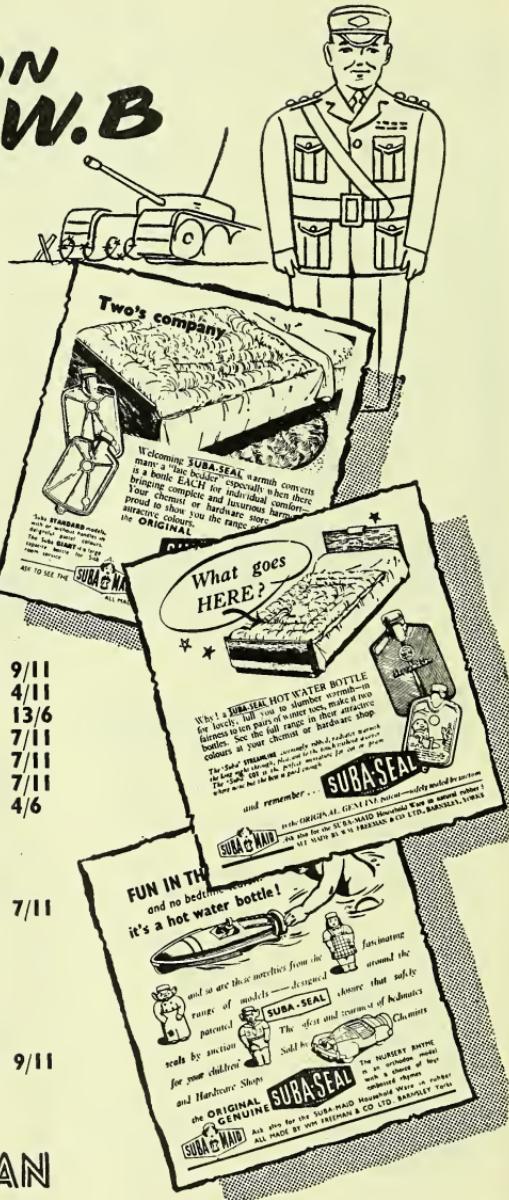
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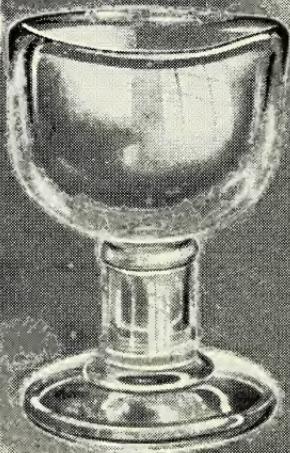
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Colgate Chlorophyll Toothpaste DESTROYS BAD BREATH

Originating in the mouth



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Now Colgate brings you wonder-working Chlorophyll in the finest chlorophyll toothpaste that 146 years of experience can create! Colgate Chlorophyll Toothpaste!

100% COLGATE BAKED CHLOROPHYLL TOOTHPASTE FOR YOU.

Nature's own chlorophyll is one of all green plants to enable them to live and grow. But science must break down this natural chlorophyll into usable, effective form (water soluble chlorophyll) so that it can help you against bad breath, tooth decay and gum disorders. That's why Colgate's experience and skill in creating this exciting formula is important to you in new Colgate Chlorophyll Toothpaste. Get the benefits of these water-soluble chlorophylls in a safe and pleasant form!

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TOOTHPASTE
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LARGE SIZE TUBE 2/-

* Contains water-soluble chlorophyll

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A New, Exclusive Colgate Formula!

Colgate Chlorophyll Toothpaste, made with water-soluble chlorophyllins, not only eliminates mouth odours but can stop tooth decay, prevent gum disorders and even encourage gum tissues.

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Colgate are introducing their Chlorophyll Toothpaste with a Colgate bonus offer of one dozen *free* tubes with every gross you order — 12 for the price of 11! A tube retails at 2/-. So send in your order now and make the finest profits in toothpaste history!

COLGATE GUARANTEE
Test Colgate Chlorophyll Toothpaste for one week. If you're not satisfied then it's the most money you'll ever spend. And, both the tube and box are refundable. Colgate Products, Inc., Stamford, Conn.

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.....THE MAN WITH THE SEA IN HIS VEINS



Exceptionally attractive profits

It pays to sell Corvette, and it pays handsomely. There is 1/6d profit for retailers on the shaving bowl and 1/- on the refill. All other items in the range show a profit of not less than 10d.

SHAVING STICK 3/- SHAVING BOWL 5/6 LATHER SHAVING CREAM 3/-
BRUSHLESS SHAVING CREAM 3/- HAIR CREAM 3/6 BRILLIANTINE 4/-
SOLID BRILLIANTINE 3/6 TALCUM POWDER 4/6 AFTER SHAVE LOTION 4/-

He looked an ordinary chap, this customer. No rolling gait or bell-bottomed trousers. But his eyes alighted on my Corvette packs like a shipwrecked mariner sighting land.

"That's attractive," he said, picking up a carton, examining the Corvette picture, "that's a really smart job . . . something fresh . . . a bit different . . . just the sort of thing I like."

The call of the sea? Could be! Fact is we're an island people, and there's hardly a man jack of us who doesn't warm to the sight of a ship at sea. Anyway, I'm convinced these Corvette packs make my displays pay dividends.

They *attract*. They have character. They stand out on necessarily crowded shelves and do a selling job in themselves.

Corvette



quality range of matched toilet preparations for men

Goya Men's Division 161 New Bond Street London W1

what a case well !



Still something missing

somewhere, which in this case

is the case we need.

Please make sure that

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opened and when C.R.S.-

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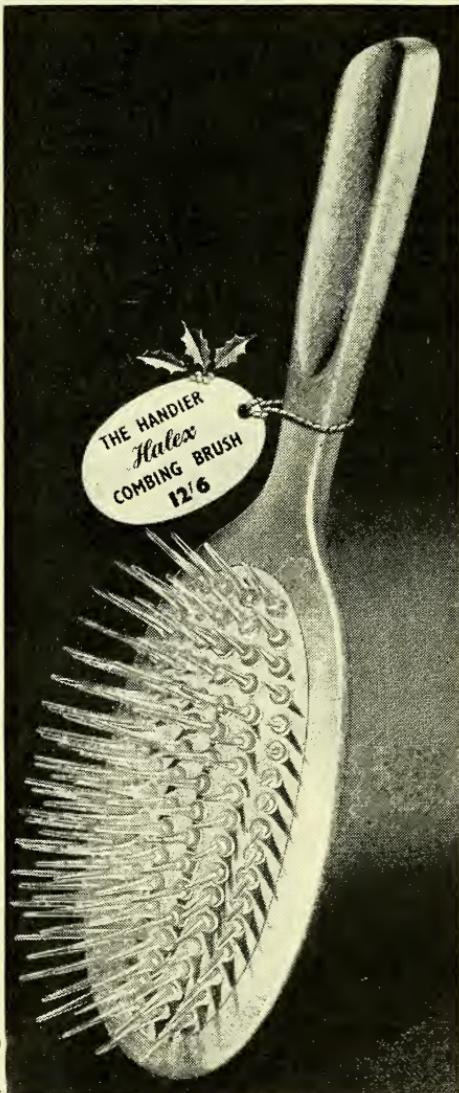
Have you seen the details?
 Have you heard about the
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 mostly in colour, that will
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 profit quickly?



If not, ask your
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 details, or write
 to us for a copy
 of the new
 illustrated
 Brochure.

HALEX LIMITED

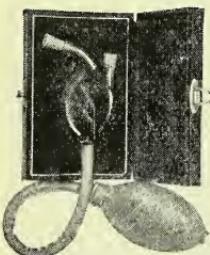
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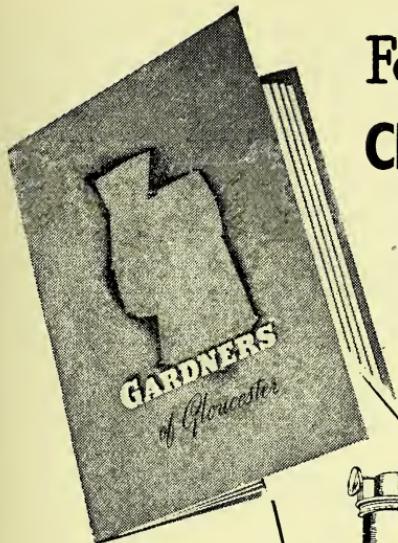
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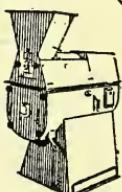
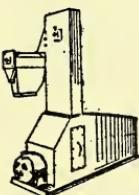
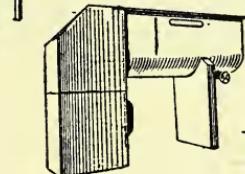
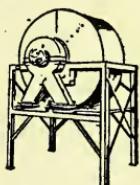
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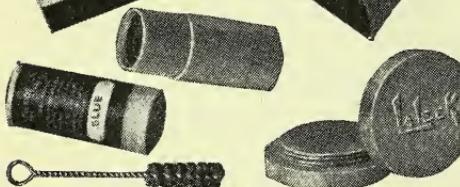
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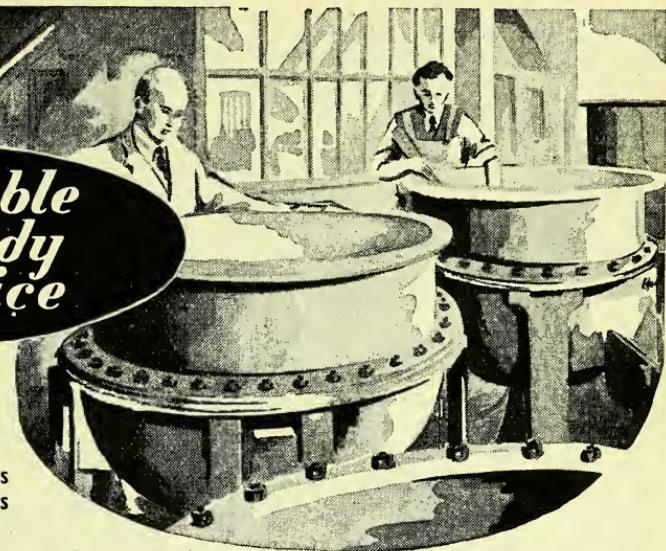
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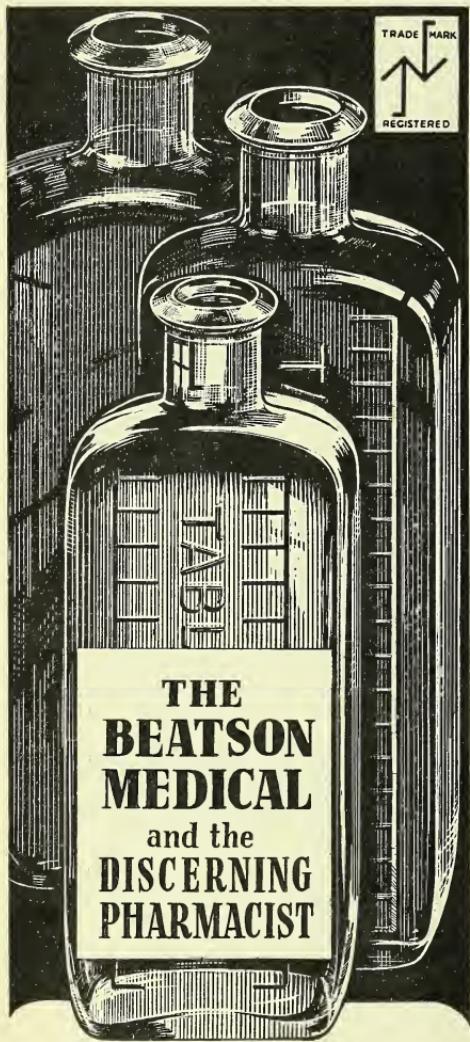
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OCTOBER 4, 1952

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Volume CLVIII

CONTENTS

No. 3789

A New Sulphonamide Available	470	Guide to New Medicaments	479
Authors of Conference Papers	483	Key Industry Duty Additions	468
Business Changes	463	Legal Reports	460
Coming Events	488	Marriages	462
Company News	463	N.H.S. Statistics	477
Conference Science Sessions	480	National Pharmaceutical Union	464
Congress of Hospital Pharmacists	465	New German Proprietaries	482
Correspondence	477	P.A.T.A. Coloured Supplement	
Deaths	462	Personalities	462
Editorial Articles:—		Prescription Pricing, 1951-52	471
A.C. & D. Post-graduate Course	473	Price Changes. Coloured Supplement	
Britain's Cosmetic Industry	473	Report on Health Service	471
Progress in Pricing	474	Scientists Meet in Belfast	478
An International Development	474	Topical Reflections	461
Training Chemical Engineers	474	Trade Notes	469
Essentials of Treatment—1	475	Trade Report	484
Fifty-first Chemists' Exhibition	466	Zanzibar Cloves	487

NEWS OF THE WEEK

Monopolies Commission's Insulin Report. — The Board of Trade announces that a report on insulin by the Monopolies and Restrictive Practices Commission is being published shortly.

Wages Authority Plan. — In a pamphlet issued by Mr. R. Edwards (general secretary of the Chemical Workers' Union) a new appeal for a national authority to plan and fix wages is made. The pamphlet also deals with labour turnover, job evaluation, and systems of payment in the chemical industry.

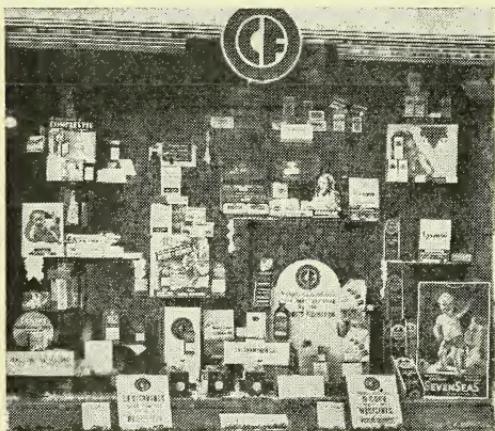
Refresher Courses at Dartford. — The Dartford Technical College has organised the following refresher courses of six lectures each: "Accountancy for the Pharmacist," by Mr. K. G. Cluer, A.C.I.S., A.I.C.A. (Mondays at 7.30 p.m., commencing November 3); "Recent Advances in Pharmaceutics with special reference to the British Pharmacopœia, the British Pharmaceutical Codex and the Extra Pharmacopœia," by Mr. K. R. Capper, Ph.D., B.Pharm., Ph.C., D.I.C. (Mondays at 7.30 p.m. commencing January 26, 1953).

Insurance Contributions Increased. — National Insurance contributions will be increased from October 6 (C. & D., July 5, p. 1). Stamps at the new rates have been on sale at post offices from September 29. Employed men and their employers will each pay an extra 8d. per week; women and their employers an extra 6d. Self-employed men will pay an extra 11d.; self-employed women, 9d. A leaflet N.I. 70 setting out the rates and giving further details can be obtained from local National Insurance offices and post offices.

Imports of Linseed Oil. — Private imports of linseed and linseed oil from overseas will be permitted from January 1, 1953. For the time being licences will be granted for the import of 1 ton of linseed oil or 3 tons of linseed for every 3 tons of linseed oil purchased by the applicant from the Ministry of Food after September 6. The ratio of permitted imports to purchases from the Ministry of Food will be reviewed from time to time in the light of the rate of disposal of Ministry's

stocks. The licences will be available from January 1 to June 30, 1953. Importers will be asked to submit periodical returns of imports against licences issued.

Guild of Public Pharmacists. — At the 150th meeting of the Council of the Guild of Public Pharmacists on September 27, Mr. D. W. Blackwood was co-opted as district member and secretary for Scotland to fill the vacancy caused by the resignation through ill-health of Mr. Fullarton. Reports of the officers showed that the Guild was prosperous and that arrangements made by the branches for the winter's activities were well in hand. The practice adopted by the registrar of not renewing membership until the previous year's subscription had been paid in addition to the current one, was confirmed. It was decided to make every effort to increase the number of issues of the "Public Pharmacist" and to issue a news sheet only when in the midst of discussion of items of major policy or of salary negotiations. It was decided to seek further precise information on the subject of a professional negotiator before a recommendation be made to the membership. Reports on the British Pharmaceutical Conference at Nottingham from council members who had attended were unanimous in declaring that it was one of the most successful because of the excellent arrangements made by the local committee and for the interest of the papers presented on many aspects of hospital pharmacy. Particular emphasis was laid on the usefulness of the symposium session.



C.F. DISPLAYS AT NOTTINGHAM. During the Nottingham meeting of the British Pharmaceutical Conference recently, eighty-six local chemists made displays of Chemists Federation products. The two shown above are typical.

LOCAL NEWS

Window Broken by Raider. — A thief threw a brick through the window of the shop of G. W. Scaddan & Co., 214 Broadway, Didcot, Berks, but was disturbed before he had time to remove any of the goods which included cameras.

Proposed Dinner to the President. — Mr. J. P. Murphy (president of the Liverpool Chemists' Association) in a recent letter to his members, proposes that a complimentary dinner should be held in the honour of Alderman W. J. Tristram (president of the Pharmaceutical Society and a member of the Association).

Hunts Chemist Warned. — A Huntingdonshire pharmaceutical contractor under the National Health Service was warned recently by the local Executive Council for dispensing a 4-oz. packet of cotton wool that weighed only 3.59 oz. It was the only complaint arising from all the tests of drugs and appliances made in the county during the past year.

Address on Diseases Discussed. — Addressing the first meeting of the winter session of the Romford branch of the Pharmaceutical Society at Romford recently, Dr. J. Mervyn Thomas (medical officer of health for Chelmsford) spoke on infectious diseases, their complications and modern treatment. He stressed the seriousness of complications of adults, and commented upon the prevalence of meningitis-like symptoms in early stages of infectious diseases, giving as his opinion that



those symptoms might be attributable to *Bacillus coli* rather than to Streptococcal infection. He indicated possible combinations of sulphonamides and antibiotics in the treatment of infectious diseases.

SPORT

Golf.—ULSTER CHEMISTS' GOLFING ASSOCIATION, captain's prize competition at Belvoir Park, Belfast, on September 24. Winner:—J. A. McNeill, Fortwilliam, with S. Purce, Massereene, runner-up. The prize for the best gross score went to H. Marshall, Belvoir Park, and the consolation prize to W. H. Boyd, Ormeau. At the general meeting which followed, Mr. J. Jeffers, the captain, presided. Mr. H. McCracken was elected captain for 1953, Mr. C. Hall, treasurer, and Mr. W. H. Boyd, secretary.

LONDON CHEMISTS' GOLFING SOCIETY, Brookmans Park Golf Club, Hatfield, on September 25, autumn meeting: Medal competition for Burgoine cup, winner: W. N. Cockburn (6), 76; Bogey competition for jubilee vase, winner: R. H. Davies (12)-5; Stapleford competition for *Apollinaris* silver salver, winner: R. Julliard (14), 32 points; Gross score less age competition for Dr. Swanston's prize, winner: A. W. Daniel (16), 27. Leading scores (medal followed by bogey competition):—W. N. Cockburn (6), 76 net; 3 down. H. R. Dawson (20), 76 net; 8 down. R. Collings (24), 77 net. R. H. Davies (12), 77 net; 5 down. R. Julliard (14), 78; 7 down. E. G. Nice (9), 79; 7 down. W. S. Hutcheon (7), 79.

IRISH NEWS

Ulster Chemists' Association.—The Ulster Chemists' Association has sent a copy of its blue price list, 1952-54, to each member. Price amendments for September (containing more than 100 price changes) have also been circulated.

Increased Import Duty on Malt.—The Government of the Irish Republic has increased the import duty on all malt preparations, including malt and cod-liver oil. The new rate of duty is 75 per cent. *ad valorem*, with a 50 per cent. preferential rate (old rate, 50 per cent. with a preferential rate of 33½ per cent.). The rate of duty on cotton wool and manufactures of cotton wool has been increased to 50 per cent. *ad valorem* (full rate) and 33½ per cent. (preferential) from September 30. The suspended package duty on medicinal preparations, surgical dressings, disinfectants and insecticides has been restored.

Midlands Drug Federation.—At a meeting of the Midlands Drug Federation held recently in Maryborough, co. Leix, Mr. Desmond P. McHugh, M.P.S.I., Athy, was elected chairman, Mr. J. Cannon, Maryborough, treasurer, and Mr.

Michael Bree, L.P.S.I., Abbeyleix, secretary. A discussion took place about the proposed setting up of further health clinics, and it was agreed to give the fullest support to the Irish Drug Association in any action they might take in their members' interest. Mr. B. R. Smith, organising secretary of the I.D.A., attended the meeting.

Donegal Chemists' Association.—A well-attended meeting of the co. Donegal Chemists' Association was held in Bundoran, on September 21, Mr. D. D. Sweeney, M.P.S.I., Glenties, presiding. The Pharmaceutical Society of Ireland was represented by Messrs. J. P. Kissane (president), M. Costello (vice-president), and J. G. Coleman (registrar) and the Irish Drug Association by Messrs. G. C. O'Neill (president), T. R. Bourke (vice-president), and B. R. Smith (secretary). The agenda included the new health proposals set out in the White Paper, the possible need for an ethical code in pharmacy, the administration of the poisons law and the 1908 Act, particularly with reference to laxity by non-chemist traders in selling poisons, the coming restrictive practices legislation in the Dail, the withholding of veterinary medicines and preparations by certain firms from pharmaceutical chemists, and leakages of chemists' lines to non-chemist traders. A dinner was held at the conclusion of the meeting.

SCOTTISH NEWS

Advice on Operation of the Levy.—The Clerk of the Glasgow Executive Council has sent a circular letter to all chemist contractors on his pharmaceutical list advising them that when a prescription form orders both medicine and elastic hosiery the charge for the latter only should be collected.

Aberdeen University Extension.—A new chemistry department for Aberdeen University was opened by Sir Robert Robinson (professor of chemistry, Oxford University), at a ceremony in Aberdeen on September 17. The department is housed in a five-story granite building which cost £300,000. The opener, in an address, warned that demands for more research were in danger of losing their effect by their repetition. Replying, Mr. Thomas Johnston (Chancellor of the University) said that eventually coal or its derivatives might be sold "largely over the chemist's counter."

LEGAL REPORTS

Sale by Unqualified.—At Perth Sheriff Court on September 22, Mr. J. Steven Cameron, chemist, 37 James Square, Crieff, Perths, was fined a total of £15 on account of three contraventions of the Pharmacy and Poisons Act. The defendant admitted the contraventions. Fiscal said an inspector made test purchases of tablets at the accused's shop. The sales were made by an unqualified assistant—a girl of sixteen—and, in addition, in two instances the accused's name and address were not on the containers. Also the word poison was not on the label of the tablets. The inspector was not asked to sign the poisons register.

Possession of Uncustomed Camera.—The question whether British civilians are liable to pay purchase tax and customs duty on a camera sold to them and bought by an American, duty-free from a "PX" store (the American equivalent of a NAAFI store) was argued before the London Sessions Appeals Committee recently when Richard Anthony Relf, a bank clerk, 336 Kennington Road, London, appealed against a conviction and fine of £58 and £5 5s. costs imposed at Lambeth for knowingly keeping an uncustomed camera with intent to defraud the Customs of duty. Counsel for the Customs and Excise said it was a matter of great public importance that articles brought into this country duty-free from American personnel here should not find their way into the hands of British civilians. He submitted that a camera bought by an American serviceman in a PX store in the country duty-free for American privilege became uncustomed if sold to a British civilian. There was a decision in the Courts in 1824 that had never been upset. In that case the Portuguese Ambassador was allowed to import wines duty-free for himself. When he left the country and he ordered his wine cellar to be put up for auction it was held that the privilege of duty-free wine had lapsed when the wine went out of the possession of the Ambassador. "It would be a most impossible situation if the Customs allowed goods to come into the country without the high duties and then allowed them to be sold at will," he added. Relf said he had bought the camera for £50 from an American airman who came to his mother's shop. He thought it was worth about £70, but subsequently found its value to be about £110. The airman

told him he bought it in this country and he therefore assumed that the duty had been paid. His situation in the bank where he was employed depended upon the result of this case. Counsel for Relf said it was rather horrifying that the Customs should prosecute on the facts of the case. There had been no intention of doing anything dishonest, and Relf had had a most expensive lesson in this branch of the law, as the camera would be confiscated and he would lose the £50 he paid for it. After consulting the other members of the Committee, the chairman said: "The evidence may provide a valuable lesson to purchasers or possessors of uncustomed goods which had been bought from PX stores. In this case we are far from satisfied that Relf knew the camera was uncustomed, or that he had any intention to defraud the revenue. The appeal will be allowed, with 20 gns. costs."

Weedkiller Not Entered.—At the Penrhyneddraeth, Merioneth, magistrates' court on September 25, Mr. John H. Griffith, The Pharmacy, Penrhyneddraeth, pleaded guilty to four charges of selling a poisonous weedkiller containing 70 per cent. of arsenious oxide and not recording the sale in the poisons book, contrary to the Pharmacy and Poisons Act, 1933. Prosecution for the Home Secretary said that in March 1952 police officers had occasion to examine the defendant's poisons book and found he had sold to the Maentwrog Estate, through one of their workmen, six 1-lb. tins of weedkiller on four different occasions during the past two years and made no entry of the sales. A detective-inspector said the offences came to light in connection with investigations into another case. The defendant told him he had overlooked entering these sales because he knew the person he supplied it to and knew it would be used legitimately. The inspector agreed in cross-examination that in some sense it was Griffiths' zeal in assisting the police in their inquiries that brought the offence to light. The defence stated that the defendant had been in business for thirty-one years without previous complaint. He had also been complimented by an inspector of the Pharmaceutical Society on the meticulous and clear manner in which he kept his register of poisons and dangerous drugs. The defendant was fined ten shillings on each charge.

TOPICAL REFLECTIONS

N.P.U. Area Conference

The recent conference at Cambridge of National Pharmaceutical Union representatives from nine counties (pp. 428-29) was, like its predecessor at Exeter, an advantageous means of collating the views and convictions of a substantial part of the N.P.U. membership. On reading your report and the editorial comment on it (p. 441), my first and strongest impression is that the programme was overloaded. Future conferences of the same type should, I suggest, begin in the morning and be resumed in the afternoon. More than one of the resolutions put forward covered well-trodden ground, even though circumstances rendered them topical. Arrears of pricing National Health Service prescriptions formed, it appears, the most controversial issue: the position remains so unsatisfactory that the meeting expressed a natural desire to have these arrears cleared off at almost any cost. This encumbrance of arrears, coupled with the manifest inadequacy of the container allowance, tends to deprive the Service of whatever attraction it may have possessed. It will not be surprising if the thoughts of representatives at future N.P.U. conferences turn increasingly to trade at the counter. The fact that counter business is, as Mr. R. H. Kemp well put it, pivotal, renders the congestion of the Cambridge conference agenda the more unfortunate. Some of the members present would probably have had a good deal to say, had time permitted, about the Draft Statement on Matters of Professional Conduct issued from 17 Bloomsbury Square. As it was, the only speech on the subject reported (other than the chairman's summing up) was a reasoned criticism of certain features of the statement. It is probably not too much to expect that other criticisms will be forthcoming.

Hints on Study

Professor H. Brindle's report on the recent chemistry examinations of the Pharmaceutical Society of Northern Ireland (p. 425) includes comments applicable in every country. Evidence had been found showing that some candidates in Northern Ireland "worked hard at topics that were expected to be asked instead of endeavouring to gain a good all-round knowledge." Professor Brindle added that "a scrappy knowledge of a few chemical facts would not secure a pass in the examination." The

first of these quotations describes the old mistake of "cramming"; the second indicates an even more unsatisfactory way of using a curriculum. Till recent times we used to hear of students "having a shot" at an examination. There have been reports of pharmaceutical students in Great Britain going to Edinburgh to be examined after failing at a corresponding attempt in London. (I have not known of any students going in the opposite direction.) Unless there is a high degree of probability of passing an examination, it is, to say the least, a waste of money to enter for it. Professor Brindle goes on to say, however, that "there was abundant evidence that many candidates attempted the examination with a very inadequate knowledge." A good plan for potential examinees is to read, in every subject, rather more than the accepted minimum. Having taken that precaution, success or failure may depend on the state of the candidate's nerves. Over-anxiety is most certainly not to be recommended.

Virtues of Lanolin

The contributed article "Lanolin in Cosmetics" (pp. 432-33) is appropriately placed immediately in front of pages dealing with Christmas trade in perfumery and its adjuncts. The great absorbency of lanolin has naturally led to its widespread use in medicinal as well as in toilet preparations. A look through both volumes of "Pharmaceutical Formulas" is instructive in this respect. Several applications are on the border-line, serving in either capacity. Anyone making one of these preparations for the first time will find the data in your article helpful. The authors' reference to lanolin in face powder may be supplemented by the fact that in 1889 a British patent for lanolin in toilet powders was granted. The formula did not include the use of ether, which, I read in an old edition of "P.F.", is "a great improvement." The ether was, of course, added for the purpose of liquefying and dispersing the anhydrous lanolin before incorporating it with the powders. "Cremores" in "P.F. Vol. I," a comparatively short section, contains twelve applications with lanolin, either hydrous or anhydrous, as an ingredient; and the "Unguenta" section in the same volume includes more than half a page of formulas for ointment bases making use of wool fat mixed with various other substances.

Xrayser

MARRIAGES

CASEY — **WALSHE**. — At the Church of Our Lady Help of Christians, Swinford, co. Mayo, Eire, recently, Stanley Casey, B.D.S., Ballymote, co. Sligo, to Matilda M. Walshe, L.P.S.I., Swinford, co. Mayo (a daughter of the late Mr. Dominic Walshe, Ph.C.).

GLEESON — **O'MEARA**. — At University Church, Dublin, on September 17, Augustine S. Gleeson, M.P.S.I., Birr, Offaly, to Margaret O'Meara, Roscrea, co. Tipperary.

LEE — **DAVEY**. — At Belfast, on September 17, Michael Patrick Lee, M.P.S.N.I., 9 Dock Square, Warrenpoint, co. Down,



Northern Ireland, to Derra Clare Davey, Killyleagh, co. Down.

MELLERICK — **DIXON**. — At University Church, Dublin, recently, James Mellerick, M.P.S.I., Conna, Tallow, co. Waterford, to Anne Dixon.

DEATHS

BAILEY. — On September 15, Mr. John Bailey, M.P.S., 11 Cavendish Street, Waterloo, nr. Ashton-under-Lyne, Lancs, aged sixty-five.

KERSHAW. — On September 6, Mr. Richard Kershaw, M.P.S., 96 Banstead Road, Carshalton Beeches, Surrey, aged seventy-five.

MERRIS. — In Saxondale Hospital, Notts, recently, after a long illness, Mr. J. W. J. ("Bill") Merris, Chilwell, Notts (a representative of the Birmingham Chemical Co., Ltd., Litchfield, Staffs), aged fifty-six.

PRITCHETT. — On September 19, Mrs. Gertrude Pritchett, wife of Mr. George A. Pritchett, M.P.S., 127 Biddulph Mansions, Elgin Avenue, London, W.9.

SWALE. — On September 17, Mr. Norman Swale, M.P.S., Windyhay, Belmont Road, Ben-Rhydding, Yorks, aged sixty.

YEO. — On September 11, Mr. John Henry Arthur Yeo, M.P.S., 67 Moorland Road, Weston-super-Mare, Somerset, aged seventy-six.

PERSONALITIES

MR. WILLIAM MORGAN THOMPSON, M.P.S., who has been appointed deputy general manager of sales of Monsanto Chemicals, Ltd. (see p. 463), is a member of the council of the Association of the British Pharmaceutical Industry. Mr. Thompson joined the company in 1933 and was appointed manager of the fine chemicals section of the sales division on his return from war service in 1945. After successive appointments as home sales manager and as sales manager he became sales controller in 1950.

In a report on the Council members of the Pharmaceutical Society of Northern Ireland (*C. & D.*, September 27, p. 427), a wrong portrait was published in connection with Mr. C. A. Quinn. Mr. C. A. Quinn, M.P.S.I., M.P.S.N.I., qualified under the Pharmaceutical Society of Ireland in 1925 gaining first place in the examinations. Two years later he

opened a business on his own account in Castle Street, Belfast, after registering as a pharmaceutical chemist, Northern Ireland, and later moved to his present premises in 479 Falls Road. A past-president of the Ulster Chemists' Association, he joined the Executive Committee of the Association in 1941. In 1949, when the Association's vice-president, he was a representative to the Belfast Chamber of Trade. He is a member of the Northern Ireland Claims Tribunal, National Health Service, and of the committee of the Northern Ireland Chemists Federation.



COMPANY NEWS

MONSANTO CHEMICALS, LTD. — Mr. Philip A. Singleton has been appointed managing director of the company and Dr. W. D. Scott, assistant to the chairman. Dr. Scott is to co-ordinate activities in the Commonwealth.

IMPERIAL CHEMICAL INDUSTRIES, LTD. — Mr. John Leonard Armstrong (treasurer of I.C.I. since 1945) was appointed finance director, and Mr. Percival Kay Standring (chairman, dyestuffs division), was appointed director in charge of the dyestuffs and pharmaceuticals group, from September 25.

GLAXO LABORATORIES, LTD. — Subject to audit, group profits for the year ended June 30 amounted to £1,585,000 (against £1,333,000), after providing for all charges including £1,775,000 (£1,740,000) for U.K. taxation and including trading profits of previous years, £80,000 (£77,000). Taxation charge allows for an over-provision of £60,000 for previous years (£63,000 under-provision). The directors propose to place to future research and development reserve, £150,000 (same); obsolescence and replacement reserve, £250,000 (same); exchange reserve, £200,000 (nil); and general reserve, £500,000 (£555,464). Superannuation is £50,000 (same). In addition to increasing the dividend to 30 per cent. for the year (against 22½ per cent.), a one-for-one scrip bonus is proposed, subject to permission from the Capital Issues Committee. Shareholders are informed that the purpose of the issue is to bring the nominal capital into a closer relationship with the capital actually employed, and in itself will have no effect on the future amounts to be distributed by way of ordinary dividends. The directors point out the current trading position is less favourable than in the past financial year.

New Companies

A. J. TAYLOR (CHEMIST), LTD. (P.C.). — Capital £500. To carry on the business of chemists, druggists, drysalters, etc. Alec J. Taylor, M.P.S., and Deryn M. Taylor, directors. R.O.: 161 Oxford Road, Burnley.

SIDER PHARMACIES, LTD. (P.C.). — Capital £1,000. To carry on the business of wholesale and retail chemists and druggists, etc. Abraham A. Sider and Valerie Sider, directors. R.O.: 48 Dorset Street, London, W.1.

HOUNDWOOD FARMS (PRODUCTION), LTD. (P.C.). — Capital £2,000. To carry on the business of manufacturers of and dealers in insecticides, weed killers, disinfectants, chemicals, etc. Douglas Hoskings, Ernest G. Hoskings, Trevor T. Hoskings, Clifford Hoskings, Dorothy Stockman and Ethel M. Stacey, directors. R.O.: Stone Mill, Street, Somerset.

BUSINESS CHANGES

THE telephone number of the Chemical Society, Burlington House, Piccadilly, London, W.1, is now Regent 0675.

MR. B. G. SINCLAIR, M.P.S., has opened a pharmacy at 50 Ben Jonson Road, Stepney, London, E.1.

ASTRA CHEMICALS, LTD., have transferred their offices to North Petherton, Bridgwater, Somerset (telephone: North Petherton 263).

ROBERT PINTUS & CO., LTD., have removed to 17 Stratford Place, Oxford Street, London, W.1 (telephone: Grosvenor 8251).

LONDON CO-OPERATIVE CHEMISTS, LTD., are opening pharmacies shortly at 156 Roman Road, Bethnal Green, London, E.2.; 1 Vicarage Parade, West Green Road, Tottenham, London, N.15; and Uxbridge Road, Shepherd's Bush.

Appointments

LUSTY'S NATURAL PRODUCTS CO., Westcliff-on-Sea, Essex, have appointed Mr. S. F. Gillam their production manager.

MONSANTO CHEMICALS, LTD., London, have appointed Mr. W. M. Thompson, M.P.S., deputy general manager of sales, from October 1. Messrs. D. C. M. Salt and J. S. Hunter have been appointed managers of the general chemical sales and technical chemical sales departments respectively.

SIR PERCY BARTER (chairman, Board of Control, Ministry of Health) retired on September 30. Mr. I. F. Armer (deputy secretary of the Ministry) has been appointed to take over the chairmanship in addition to his present office. A new Division of the Ministry is being created to deal with health service remuneration. Mr. J. P. Dodds is being appointed under secretary in charge of the Division. He will be succeeded as under secretary for finance and accountant general by Mr. A. S. Marre.

NATIONAL PHARMACEUTICAL UNION

MEETINGS of the National Pharmaceutical Union Executive Committee and of the directors of the Chemists' Defence Association, Ltd., were held in London on September 24, Mr. Donald Hudson in the chair.

THE CHAIRMAN extended a welcome to Mr. Gwilym H. Hughes, Conway, the successful candidate in the by-election to fill the casual vacancy on the Executive Committee representing the Western Division I electoral area.

THE SECRETARY reported that Messrs. H. B. Coulson and R. H. Kemp had represented the N.P.U. at a meeting of the council of the Institute of Optical Science held on July 31 when matters arising out of the report of the interdepartmental committee on the statutory registration of opticians had been discussed. It was resolved to defer for one month, consideration of a report upon the proceedings.

It was agreed that copies of the sixth Joint Industrial Council Agreement which came into operation at September 22 be circulated to all members.

Purchase Tax Relief?

THE SECRETARY reported that the Board of Trade had set up a special committee "to examine the position of traders holding stocks of goods on which purchase tax or other duties of Customs and Excise have been paid, on an alteration of those rates of tax or duty; and to consider how far there is a case of principle for the payment of compensation at the expense of the Crown for loss occasioned by a reduction of tax." The committee was also charged with producing recommendations for a rebate "or other scheme designed to give relief to the trader from loss if the committee is satisfied that there is a case in principle for such compensation." It was agreed that the N.P.U. be associated with a memorandum which had been prepared for submission to the Government committee.

THE SECRETARY reported that the National Allied Societies Committee of the National Chamber of Trade (on which the N.P.U. is represented) had produced the memorandum on gift and coupon trading schemes setting out the case against such schemes. It was agreed that the N.P.U. should be associated with the memorandum and that a copy be sent to each member of the N.P.U.

It was resolved that the draft revised Statement on Matters of Professional Conduct be referred to a special committee comprising the chairman, vice-chairman, Messrs. H. B. Coulson, H. G. Moss, W. Talvan Rees and the secretary for consideration and report to the Executive at their next meeting.

The General Secretary of the National Federation of Sub-postmasters had expressed regret for the unfortunate wording of the reference in the August issue of "The Sub-postmaster" to the time involved in dealing with abortive claims for repayment of the levy charges. He had given an assurance that the position would be made clear in the issue to be sent to the Federation's members in October.

November Conference.

The Central N.H.S. (Chemist Contractors) Committee had appointed an *ad hoc* committee to meet representatives of the Ministry to discuss Drug Tariff basic buying quantities. The Central Committee did not accept the Ministry's proposals for clearing arrears of pricing and would not be responsible for putting their proposals before individual contractors. They would not raise any objection if the Ministry wished to submit the proposals direct to individual contractors. Arrangements were being made for the holding of a Pharmaceutical Committee conference in November.

THE CHAIRMAN reported that arrangements were under discussion which, if accepted, would enable contractors to check more readily their payments for referred prescriptions. The "halfpenny ready reckoner" and basis for pricing tablets were at present undergoing revision.

The local organisations officer submitted reports upon work which had been undertaken since the last meeting of the Executive Committee and upon the Area Meeting held in Cambridge on October 21.

Canadian Food and Drugs Bill. — A Bill to replace the existing Food and Drug Act was introduced into the Canadian Senate recently. It contains provisions prohibiting the sale of cosmetics and "therapeutic devices" which may cause injury to health if used in accordance with the directions on its package. The Bill also forbids the manufacture of a food, drug, cosmetic or therapeutic device in an unsanitary place.

CONGRESS OF HOSPITAL PHARMACISTS

THE first international congress of hospital pharmacists was held in Basle University, Switzerland, September 17-19. It was attended by over 250 pharmacists from countries as wide apart as Canada and Austria; twenty-two were from Britain. Addresses of welcome were read by: DR. K. STEIGER (President of the Swiss Society of State and Hospital Pharmacists); PROFESSOR C. LUDWIG (*Recteur* of Basle University); DR. A. ZWEIFAL (*Conseiller d'Etat, chef du département sanitaire du Canton de Bâle-Ville*); COLONEL H. SPENGLER (chief pharmacist, Swiss Army); DR. G. WEISFLOG (section chief to the Swiss federal service of public health); and MR. A. MARTI (president of the *Syndicat des Pharmaciens Suisses*).

Review of Hospital Pharmacy

During the conference sessions PROFESSOR DR. J. CHEYMOL, PARIS, reviewed hospital pharmacy in eight countries. He expressed the hope that a place would be found for hospital pharmacists within the International Pharmaceutical Federation, the 1951 (Rome) meeting of which had provided material for his review.

The only paper read by a British hospital pharmacist was by MR. J. W. HADGRAFT, Ph.C., A.R.I.C., London, and was entitled "Pharmaceutical Aspects of Dermatology." Dermatology was a field in which pharmacists' training could be designed towards giving close co-operation with doctors, he said. Local application would probably play a less important part in the treatment of skin diseases as causes were determined and eliminated. The ideal ointment base would probably never be discovered. Polyethylene glycols represented a useful addition to the range of protectives in ringworm treatment. In the treatment of eczema attention had been paid to the acid-base balance of the skin (which has a pH range of 4 to 6). In seborrhoeic dermatitis and various related conditions the pH showed a shift to the alkaline side over the whole body surface. A number of creams and lotions to adjust the skin pH to normal had been made and a preparation containing ointment of wool alcohols, 45 per cent.; titanium dioxide, 5 per cent.; and a buffer solution of pH 4.4 was found effective. The pH of the skin could be lowered to control secondary bacterial invasion to 3.5 and less, by the use of a preparation containing a non-ionic emulsifying wax, white soft paraffin, liquid paraf-

fin and 70 per cent. of a butter solution (containing peptone, 5 per cent., and gluconic acid, 3 per cent.) and benzoic acid, 0.1 per cent., as a preservative.

DR. H. L. FLACK, Philadelphia, U.S.A., in a paper entitled "The Manufacturing of Parenteral Solutions" read in his absence, stated that while there was no lack of inventiveness on the part of pharmacists in the production of intravenous solutions, it was felt in America that some degree of standardisation was necessary. The parenteral system had been devised as a result, slides showing the standard apparatus used in the system were shown.

The question how long a galenical should be stored was discussed by PROFESSOR DR. SVEND A. SCHOU, Copenhagen. He had found that many of the fluid galenicals after storing normally on shelves were considerably less effective than they should be. More information was needed on the temperature coefficient of preparations. Dr. Schou advised: "Mark all drugs with the date of receipt and store liquid galenicals as near to 5°C. as possible."

End of Bottle Washing?

The end of medicine bottle washing was envisaged by DR. A. SCHMITT, Mannheim, Germany, who gave a paper "The coating of medicine bottles with silicones." A silicone in a suitable solvent may be applied to glass and be burnt in if the glass is alkali poor. Such bottles do not need to be cleaned as they can be emptied completely.

DR. P. SORGDRAGER, UTRECHT, in a paper on fat emulsions for intravenous use said that the main difficulties in preparing such emulsions are particle size, sterility and pyrogenicity. New methods of emulsification were needed.

PROFESSOR DR. M. GUILLOT, Paris, read a paper on the rôle of the pharmacist in biological analysis (a common field for French hospital pharmacists). Papers on related subjects were given by DR. M. J. SCHULTE, Arnhem ("The determination of bilirubin in blood") and PROFESSOR DR. M. CORMIER, Rennes ("The control of fresh milk in hospital"). Other papers discussed toxicological problems, organisation, standardisation and the prevention of over-dosage.

The chair at the various sessions was occupied by different visitors and on one occasion by MR. H. Grainger, London.

FIFTY-FIRST CHEMISTS' EXHIBITION

THE fifty-first Chemists' Exhibition, held at the old hall of the Royal Horticultural Society, London, September 29-October 2, was formally opened by ALDERMAN W. J. TRISTRAM (president of the Pharmaceutical Society). He said that he hoped that the resumption of the opening ceremony (a pre-war practice) was a sign that the Exhibition was established as an annual

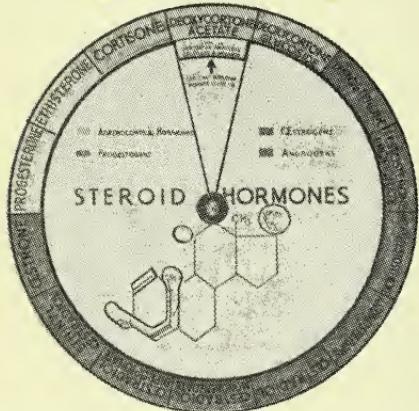
tained apparatus for emulsification and displays dealing with viscosity and factors influencing the creaming of emulsions. The latter consisted of a series of vertical, liquid filled tubes. At intervals a drop of coloured oil was released at the bottom of each tube and its speed of ascent could be noted. Thus, the effects of droplet size, difference in density between phases of an emulsion and increase in viscosity of the continuous phase were revealed. Another item was a balance having a microscope slide suspended from either arm, one dropping into water and the other into cetrimide solution. When the beam of the balance was lowered the difference of surface tension between the two liquids was apparent. A new "supersonic" homogeniser was also on view.

The hospital pharmacy exhibit, arranged by Mr. J. C. H. Hanson, M.P.S., surrounded the technological exhibit. It included apparatus (on loan from companies taking space in the exhibition) for mixing, filling, tableting, water distillation, ampouling and labelling, and ovens, mills, an aseptic dispensing screen, and a tablet disintegration testing apparatus. The retail pharmacy exhibit included Unisec dispensary fittings by MYERS OF OLD STREET, bottles by BEATSON, CLARK & CO., LTD., and stainless steel and other apparatus by the ADELPHI MANUFACTURING CO., LTD.

Exhibitors

The companies exhibiting numbered fifty-four. They (and their exhibits) included the following:—

THE ADELPHI MANUFACTURING CO., LTD., London, demonstrated their vacuum filling machine suitable for all types of liquid filling from the small dispensary to the large manufacturing company. Continuously demonstrated on the stand of APIS ENGINEERING & RESEARCH CO., LTD., Northwood, Middlesex, was their heavy duty magnetic stirrer for stirring liquids without direct contact. Liquids can be stirred in closed vessels and therefore at pressures other than atmospheric. A number of automatic and semi-automatic liquid exact volume "dispensers" suitable for filling ampoules were also shown. WILLIAM GARDNER & SONS (GLOUCESTER), LTD., Gloucester, showed a range of powder sifting and mixing machines. The CC model was designed so that the agitator, sieve and brush could be easily withdrawn without disturbing the driving mechanism. Two granulators which could handle a



Rotary chart of steroid hormones distributed by Ciba Laboratories, Ltd. (see p. 467).

event. He referred to the first Exhibition, held in 1895. The public was then admitted and there had been an attendance of 19,000, including 1,000 nurses. Today the organisers were showing the same pioneering spirit with features designed to assist the pharmacist in hospital as well as in general practice. The National Health Service owed a great deal to the enterprise of British manufacturers and to the quality of their products. Dispensing should be the most important part of a chemist's business and the special exhibits should be of assistance there.

"Special" Exhibits

The "special exhibits" referred to by Mr. Tristram were technological, hospital pharmacy and retail pharmacy exhibits. The technological exhibit organised by the chief pharmacist, Westminster Hospital (Mr. H. S. Grainger) took the form of a display counter dominated by a metalloid sphere of radius 48 cms. That showed the surface area assumed by 1 mil of mercury (also on view) when broken into droplets of 2μ in diameter as by emulsification. The increase in surface area was from 4.63 to 30,000 sq. cms. The exhibit also con-

wide range of materials were also shown. HANOVIA, LTD., Slough, exhibited their prescription model 7 sunlamp (infra-red and ultra-violet) and ultra-violet water steriliser. The latter is designed for industrial use where large volumes of sterile but not necessarily pyrogen-free water is required. By an automatic device the water is not allowed to flow until the ultra-violet tube reaches full intensity. REJAFIX, LTD., London, showed the Fillmaster hand-operated portable ampoule, bottle and vial filler. BEATSON, CLARK & Co., LTD., Rotherham, had on view some products of a service which they have revived: sand-blasting of chemists' names on to bottles. BRITISH CHEMOTHEUTIC PRODUCTS, LTD., Bradford, showed Chilva Elixir for colds, coughs and bronchial conditions in 3-oz. liqueur bottles.

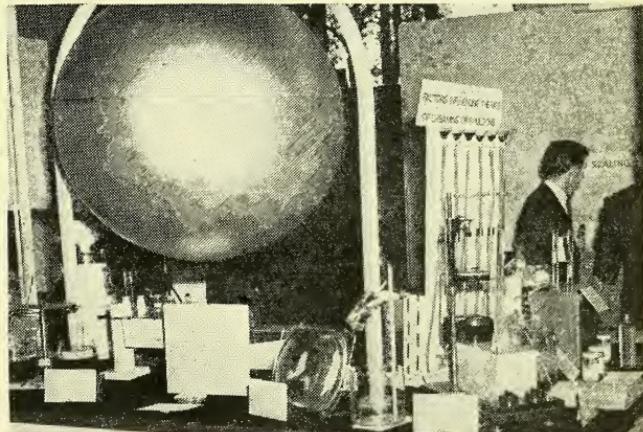
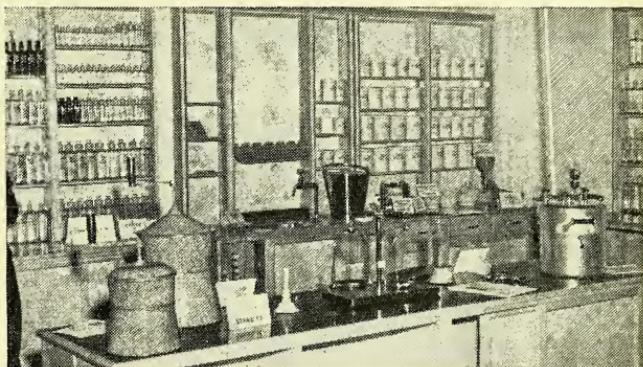
Callers at the stand of CIBA LABORA-

TORIES, LTD., Horsham, were given a copy of the company's steroid hormone rotary chart which gave information (including the structural formula) on steroids of medicinal use. The company announced the introduction of a new sulphonamide for general use, Elkosin, and showed a parenteral pack of Priscol (0.025 gm. per c.c. of imidazoline hydrochloride) and Femandren, mixed hormone linguelets.

A teething jelly for application to infants' gums was shown by C. J. HEWLETT & SON, LTD., London. HOWARD LLOYD & Co., LTD., London, showed Isonid tablets (isoniazid) which they are manufacturing for Hamol, Ltd., Zurich. McCCLURE, YOUNG & Co., LTD., London, showed 2-oz. packs of adrenalin cream with tear-off label for ease in dispensing, and proflavine emulsion in 2- and 4-oz. jars. MEGGESON & Co., LTD., Lon-



Left: A demonstration showing the turbulence produced in a liquid being stirred by the magnetic stirring machine of Apis Engineering and Research, Ltd. Right, upper picture: Retail pharmacy exhibit showing dispensary furniture, including storage units and apparatus. Below: The technological exhibit, the large sphere illustrates the surface area of 1 mil of a liquid when emulsified. At the right are seen the tubes used to illustrate the factors influencing emulsion creaming.



don, laid emphasis on their Meggezones cough syrup introduced as a complementary product to the Meggezones lozenges, and blackcurrant pastilles with hexylresorcinol now packed in tins. DON S. MOMAND, LTD., London, showed Hints oral capsules containing 50 mgm. of oil soluble chlorophyll for the prevention of body, foot and breath odours, and Hemosol, liquid application for the treatment of haemorrhoids and other ano-rectal disorders.

MOORE MEDICINAL PRODUCTS, LTD., Aberdeen and London, showed Brovon delayed action (enteric coated) tablets for the prevention of night attacks of asthma and bronchitis, and Metheph (methylephedrine hydrochloride) tablets for the control of enuresis and relief of bronchial spasm.

SCIENTIFIC PHARMACALS, LTD., London, showed Siliplastine, an adsorbent for the treatment of exudative dermatoses.

A new dietary supplement tablet for management of pregnancy and lactation and for the prevention of dental caries, Cadroson (containing calcium, phosphorus, fluorine, iron and vitamin D) was featured by SHARPE & DOHME, LTD., Hoddesdon. Also shown were Stolic and Stolic Forte tablets for the treatment of essential hypertension.

A. WANDER, LTD., London, showed Nicetal tablets of isoniazid and Asmac tab-

lets for the symptomatic treatment of asthma.

EDWARD TAYLOR, LTD., Eccles, Manchester, the only manufacturers of surgical plasters exhibiting, had a special display of plasters scheduled for supply under the National Health Service. An illustrated booklet dealing with those lines was distributed to callers at the stand.

SCOTT & BOWNE, LTD., London, showed their smallest ($\frac{1}{2}$ oz. approx.) boxed bottle of Eau-de-Cologne, a range of reasonably priced coffrets and Matt-Creme for dry skins.

VERNON POWELL, LTD., featured the Stratton Miraclean powder compact which incorporated a device for automatically wiping the mirror when the lid was opened. The compact was also designed so that the inner compartment sprang open when the lid was pressed back.

Also exhibiting were: the BRITISH CANADIAN OPTICAL CO., London; CLINICAL PRODUCTS, LTD., Richmond; CRESSWELL BROTHERS SPONGES, London; F.A.I.R. LABORATORIES, LTD., Twickenham; FASSETT & JOHNSON, LTD., London; GOYA, LTD., London; THOMAS HARLEY, LTD., Perth; PAINES & BYRNE, LTD., Greenford; THOMAS WAIDE & SONS, LTD., Leeds; and WRIGHT, LAYMAN & UMNEY, LTD., London.

KEY INDUSTRY DUTY ADDITIONS

The Board of Trade have made the Safeguarding of Industries (List of Dutiable Goods) (Amendment No. 3) Order, 1952 (S.I. 1952, No. 1732), adding the following chemicals to the list of chemicals liable to Key Industry Duty from October 7:—

- Acetoacet-*o*-aniside
- Acetoacet-*p*-toluidide
- Acetoacet-2:4-xylidine
- 3-(β -Acetyl-*a*-phenylethyl)-4-hydroxycoumarin
- 5-Allyl-5-(1-methylbutyl) thiobarbituric acid and the sodium derivative
- p*-Aminobenz-2-diethylaminoethylamide and its hydrochloride and sulphate
- 2-Aminopyrimidine
- Amphetamine citrate and phosphate
- Antimony lithium thiomalate
- Benzhexol hydrochloride
- monoBenzhydrazide
- Bilirubin
- Biliverdin
- N*-Cetylpyridinium chloride
- Chloramphenicol
- 4-Chloro-2-methylphenoxyacetic acid
- Decamethonium bromide and iodide
- Deoxycorticosterone acetate
- 2:4-Dichlorophenoxyacetic acid
- 1:1'-Dicyanoazocyclohexane
- Diethanolamine
- 2:2-Di-(*p*-hydroxyphenyl) propane
- Dimidium bromide
- n*-Dodecane-1-thiol
- N*-*n*-Dodecylpyridinium chloride
- mono*Ethylenecacetone
- Formidimethylamide
- Gallamine triethiodide
- Hexamethonium hydrogen tartrate
- 4-Hydroxypentan-2-one
- Isoniazid
- Khellin
- Lignocaine and its hydrochloride
- Maleic hydrazide
- N*-*mono*Methylamphetamine and its salts
- S*-Methylthiuronium iodide and sulphate
- β -Methylumbelliferon
- Murexide
- β -*mono*Nitrostyrene
- 2-Nonenoic acid
- Noradrenaline hydrogen tartrate
- Pentaerythritol
- Potassium monophenylacetate
- 6-*n*-Propyl-2-thiouracil
- Salicylallylamide
- Semicarbazide
- Sodium 2:4-dichlorophenoxyacetate
- Sodium 2:3-dimethyl-1-phenylpyrazol-5-on-4-yl-*N*-methylaminomethanemonosulphonate
- Tetramethonium bromide and iodide
- Vitamin B₁₂ crystalline

TRADE NOTES

Winter Lines.—Thos. Guest & Co., Ltd., Carruthers Street, Ancoats, Manchester, 4, give details on another page of tax-free winter medicaments.

Christmas Pack.—Details of a Christmas pack of Imperial Leather toilet soap are given in an announcement by Cussons Sons & Co., Ltd., 84 Brook Street, Grosvenor Square, London, W.1, on another page.

Wick Deodoriser.—Advance Industries, Ltd., 87 Regent Street, London, W.1, an associate of the British Permanent Starch Co., Ltd., have introduced, under the name Dispel, a new wick deodoriser, a feature of which is the "quick-wick" (wick and cap in one piece). Extra large refills are also issued. As an introductory offer a bonus of six bottles free in each 3-doz. case is open to trade purchasers until October 31. Details are given on another page.

Caffeine and Piperazine Supplies.—Through a printing error two of the products mentioned in the announcement of C. F. Gerhardt, Ltd., 5 Fenchurch Street, London, E.C.3, in the *C. & D.* Supplement, September 27, were wrongly described. They were caffeine alk., B.P., and piperazine.

New Food Supplement.—A new food supplement containing the essential B vitamins is being introduced by Irving's Yeast-Vite, Ltd. (sales agents, J. C. Eno, Ltd., Watford, Herts). An introductory bonus is being given in the first month of its introduction (October).

Children's "Perm."—The home permanent waving outfit introduced by Richard Hudnut, Ltd., Power Road, London, W.4 (*C. & D.*, September 6, p. 313) was launched at a Press party in London recently, when children from the Italia Conti stage school presented a mime entitled "From Rags to Richard Hudnut."

Technical Book List.—Over 5,000 titles of English and American books now available in this country through the book trade, is being published by the Publishers' Circular, Ltd., 171 High Street, Beckenham, Kent, under thirty-nine subject classifications in an 80-page list available at 2s. 6d. per copy. (Twelve or more



copies 1s. 6d. each; distributor's imprint, 30s.; 500 or more copies imprinted free.)

Bonus Offers.—C. E. Fulford, Ltd., Carlton Hill, Leeds, 2, are offering an increased bonus for a number of their lines in October and November. The bonus is linked with window or counter displays. Details are given on another page.—C. J. HEWLETT & SON, LTD., 35 Charlotte Road, Great Eastern Street, London, E.C.2, are offering a bonus on all orders placed during October. Details are given on another page.—Bonus parcels linked with a fourteen days' window display of glymiel jelly are being given by Osborne, Bauer & Cheeseman, Ltd. Full details are obtainable from Sangers, Ltd., 258 Euston Road, London, N.W.1. Details are also given on another page.

NEW PRODUCTS AND PACKS

Turtle Oil Soaps.—H. Bronnley & Co., Ltd., Warble Way, London, W.3, have introduced a new series of bath and toilet soaps made with turtle oil.

A New Size.—Chesebrough Manufacturing Co., Ltd., Victoria Road, Willesden, London, N.W.10, are issuing a Vaseline brand white petroleum jelly in a new bottle (size 2).

New Chlorophyll Tooth-paste.—A new Kolynos chlorophyll-containing tooth-paste is being issued by the International Chemical Co., Ltd., Chenies Street, London, W.C.1. The tube is white with green lettering and it is packed in a carton of similar colours. The paste has a new mint flavour.

Worm and Fluke Remedy.—Imperial Chemical (Pharmaceuticals), Ltd., Fulshaw Hall, Wilmslow, Manchester, are issuing Minel, a combined worm and fluke remedy in containers of 1 lb. and 7 lb. It is a dispersible powder containing Phenovis and Avlothane plus the trace elements copper and cobalt.

An Additional Strength.—Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that a new-strength cytacon tablet, containing 50 microgm. of vitamin B₁₂, was introduced on September 29. To distinguish it from the original 10-microgm. tablet, it is being called Cytacon '50.' The 10-microgm. tablets in bottles of fifty and 500 and the 6-oz. bottle

of Cytacon liquid (25 microgm. per fl. dr.) continue to be available.

Penicillin Lozenges.—A roll pack containing ten penicillin lozenges to meet the specification of the National Health Service Drug Tariff has been introduced by The British Drug Houses, Ltd., Graham Street, City Road, London, N.1. Each roll is wrapped in waxed paper and metal foil and bears a plain label to which may be added directions or the chemist's own label. Twenty-five of the rolls are packed in a cardboard box with a moisture-proof outer covering.

Specialities in Combination.—Abbott Laboratories, Ltd., 3 Wadsworth Road, Perivale, Middlesex, announce the introduction of Desoxyn and Nembutal capsules, a combination of Desoxyn (5 mgm.) for its mood-elevating effect, and Nembutal (30 mgm.) for its tranquilising effect. Desoxyn and Nembutal capsules are useful in the management of psychiatric states

from minor emotional upsets to major neuroses. They give symptomatic relief when depression and fear obstruct the course of convalescence, and are of value in certain cases of obesity when the patient is restless or tense. The capsules are supplied in bottle of 100.

A New Muscle Relaxant.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, are introducing Anectine brand of injection of succinylcholine chloride, a muscle relaxant of rapid onset and short action. Anectine is particularly suitable for use in electro-convulsive therapy and other procedures of brief duration; it can also be used as a supplement to longer acting agents, and can be given alone by continuous drip or by repeated small doses in abdominal surgery and other major procedures. It is supplied (to purchasers in the United Kingdom and Republic of Ireland only) in rubber capped bottles, containing 500 mgm. of succinylcholine chloride in 10 c.c.

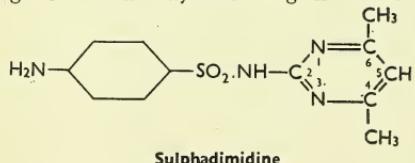
A NEW SULPHONAMIDE AVAILABLE

A NEW sulphonamide compound which has been under investigation for some time, has been released in Great Britain under the name Elkasin. It is made by Ciba Laboratories, Ltd., Horsham, Sussex, who point out that, on clinical trials and pharmacological evaluation, it is possibly the most satisfactory sulphonamide drug yet produced. Derived from pyrimidine, it has been given the generic name in the United States of sulfadimetine, but it is doubtful whether that name will find acceptance in Great Britain, owing to its similarity to sulphadimidine, of which the compound is an isomer.

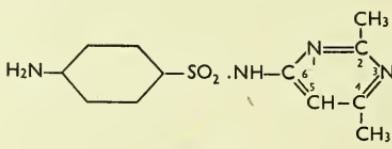
Chemically, Elkasin is 4-(para-aminobenzenesulphonamido) 2:6 dimethyl pyrimidine; or 6-(para-aminobenzenesulphonamido) 2:4 dimethyl pyrimidine, according to which way the ring is numbered

Like the other derivatives of sulphanilamide, the activity of Elkasin is due to an intrinsic property of the molecule as a whole.

The activity of a sulphonamide administered for the treatment of a systemic infection depends for the most part on the degree to which it is acetylated in the body. Acetylation takes place on the amino group and renders the compound inactive. In addition, the acetyl derivative is much less soluble, and there is a tendency for the acetyl compound to crystallise out in the kidney unless a large fluid intake is maintained and the urine kept alkaline. All sulphonamides, with the exception of the insoluble ones, combine with acetates in the blood stream, but the degree of acetylation with Elkasin is extraordinarily low.



(numbering starts at one nitrogen and is arranged so that the other has lowest number), and its formula is compared above with that of sulphadimidine 2(para-aminobenzenesulphonamido) 4:6 dimethyl pyrimidine.



Although the solubility of free Elkasin in urine is great (an advantage in treating urinary infections) its acetyl derivative is less soluble. There is no danger of renal complications.

PRESCRIPTION PRICING 1951-52

THE report of the Joint Pricing Committee for England under the National Health Service for the year ending March 1952 shows that for the first time since the Committee was set up its output has overtaken input. The average monthly output for the year rose to 17½ millions (from 13 millions during 1950-51), while the average intake of prescriptions was 17 millions. During the last six months of the year an average of 19.4 millions of prescriptions were handled per month, and that rate of output was expected to increase as still more recruits gained proficiency. The number of prescriptions handled during March 1951 was about 13 millions and during March 1952 was about 19½ millions, an increase of 50 per cent. Arrears were reduced by more than 8½ million prescriptions. The following table gives data concerning arrears.

DATE	ARREARS (IN MONTHS)	NO. OF PRESCRIPTIONS IN ARREARS
March 31, 1949	1.6	28,322,772
March 31, 1950	5.98	100,623,398
March 31, 1951	9	157,240,587
March 31, 1952	8.8	148,862,374

Number of prescriptions awaiting pricing at March 31, 1952 (including March prescriptions, received in April)—168,338,212.

YEAR	ALTERATION IN ARREARS
1949-50	Increase of 72,300,626
1950-51	," 56,617,189
1951-52	Decrease of 8,278,147

During 1951-52 the numbers of prescriptions dealt with were as follows:—

Chemists' accounts	209,960,466
Priced in full and out of turn as a check on accuracy of the system			2,376,058
Priced for investigating prescribing			723,705
Priced for the Isle of Man	318,866
Doctors' accounts	2,211,388

Total number of prescriptions dealt with

... 215,590,483

To keep pricing in step throughout the country as far as possible work was transferred from hard pressed offices to others. The Welsh Joint Pricing Committee priced about 4 million prescriptions. The Committee prices in full about 40 per cent. of the prescriptions (55 per cent. of the value). Checks on the accuracy of the assessment of the remainder are done by pricing in full 1 per cent. of chemists' accounts (142 in all). The accuracy is tabulated in the next column.

ERROR (PER CENT.)	PERCENTAGE OF ACCOUNTS AFFECTED
Less than $\frac{1}{4}$	35.2
Less than $\frac{1}{2}$	60.6
Less than $\frac{3}{4}$	81.0
Less than 1	91.6
Over 1	8.4

(The highest error found was 1.78 per cent.).

The Committee considers that its policy of opening large offices (two were opened during the year) and of enlarging existing offices (six during the year) is correct.

MINISTRY REPORTS ON HEALTH SERVICE

THE report of the Ministry of Health for the period April 1, 1950, to December 31, 1951, shows that the number and cost of prescriptions increased steadily during the period. In 1950, 217,144,505 prescriptions were dispensed; in 1951 the number rose to 228,585,022 and a sample indicated that the average cost per prescription also continued to rise, from a little over 3s. 1d. at the beginning of 1950 to a provisional figure of over 3s. 11d. at the end of 1951. The introduction of chloramphenicol, the increased prescribing of other expensive drugs and higher prices of certain drugs and dressings were contributory factors. The number of prescriptions dispensed rose to the unprecedented level of nearly 29,000,000 during the influenza epidemic in January 1951, compared with an average figure for January in 1949 and 1950 of approximately 19,000,000. All demands were met. At the end of 1951, the number of pharmacies and other establishments supplying drugs or appliances was 15,167.

The report states that dispensing continued in general to reach a high standard. In the period April 1 to December 31, 1950, 5,629 samples were taken, of which 5,122 were found to be satisfactory. The figures for the whole of 1950 were 7,459 and 6,760 respectively. In 1951 the number of samples was 7,556 of which 6,891 were satisfactory. In the remaining cases there was a *prima facie* case for investigation by the Service Committee.

The basis of the report on the National Health Service is now changed from the financial to the calendar year.

The report is published by H.M. Stationery Office, Kingsway, London, W.C.2, price 5s.

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VOL. CLVIII October 4, 1952 No. 3789

A C. & D. "Post-graduate" Course

THIS week appears the first instalment of a new "course" for pharmacists, differing from the recently concluded Refresher Course in breaking ground not previously cultivated by the pharmacist as part of his training. For that reason we have entitled it a "post-graduate" course—we hope with not too much pretension. The new course deals with the treatment of diseases, with special reference to the pharmacological and physiological principles involved. The first two articles have to do with the subject of dyspepsia, and it is instructive to note the many different modes of treatment necessary to combat a symptom that may be produced by a variety of opposing causes. For instance, peptic ulceration and chronic gastritis may both have indigestion as the principal symptom; their pathology, however, is different and the treatments accordingly have to be quite different in the two conditions.

It shakes popular beliefs that alkalis are given in the treatment of peptic ulceration, not only to neutralise the acidity of the gastric contents, but also by that action to reduce the peptic activity.

Today, when the pharmacist is called upon to discuss with doctors the merits of various medicaments in different conditions, it is an advantage for him to have some appreciation of alternative treatments not involving pharmaceutical skill. The treatment of peptic ulceration is an

object lesson in this sense. In spite of all that has been accomplished, it remains as a challenge to pharmacologists and physiologists, working in association with pharmacists and medical practitioners. In the second and subsequent articles in the series an idea will be given of the incidence of the condition, so that readers may have a picture of the size of the problems to be solved.

Britain's Cosmetic Industry

WHILST the Government has been successful in encouraging both heavy and light industries to establish themselves in development areas, it would appear that the manufacture of toilet preparations and perfumery is still largely concentrated in and around London. The final report on the 1948 Census of Production for the industry, just published (C. & D., September 13, p. 353), shows that, of the eighty-three "larger" establishments in Great Britain, no fewer than fifty-eight were in London, Middlesex, Surrey and Sussex. Seven more were in the adjoining counties of Bucks, Dorset, Hants and Oxfordshire. The net output value of those sixty-five establishments was £8 millions, or 89 per cent. of the total net production for Great Britain.

Just under 15 per cent. of the country's total production (including 3.5 per cent. to branches abroad) was transferred by the manufacturers to their own sales organisations for eventual sale to the public. Of the remaining 85.5 per cent., sold to independent buyers, 50 per cent. was taken by retailers (including multiple shops), 21 per cent. by wholesalers and nearly 11 per cent. was invoiced direct overseas. Of the principal products of the trade tooth-paste heads the lists in sales value at £2.7 millions representing 88.9 million units. (That figure, and other values given below of individual commodities, includes sales by establishments whose main output is devoted to other trades.) Perfumery sales amounted to £2.4 millions and talcum powders to £991,000. Unless fashions have changed since 1948, three jars of vanishing cream are used to one jar of cold cream, for 39.5 million units of vanishing cream, valued at £1.6 millions, were sold and

only 12.6 millions (£552,000) of cold cream. Lipsticks and refills were sold in a similar proportion—complete, 13.5 millions; refills 5 millions. Hair creams and brilliantines sold were valued at £2.1 millions, and shampoos at £922,000. Face powders were worth £1.3 millions and rouge, £192,000. Among the raw materials used by the industry packing materials cost £4.7 millions, essential oils £819,000 and glycerin, £88,000. Sales promotion by advertising in newspapers, etc., cost £833,000 and payments made to research associations totalled £11,000.

Progress in Pricing

To have halted the rapidly advancing front of pricing arrears and to have driven back the enemy by a small but measurable amount justifies the claim made by the Joint Pricing Committee for England (see p. 471), that its offices achieved "considerable progress" during the past year. Comparison of the output during the past month of the year with the same month in 1951 gives perhaps an unduly rosy picture, for during March, 1951, the staff was probably reduced by influenza (as the Committee's graph which accompanies the report indicates). For much of the achievement which nevertheless has been gained planning must take a large share of the credit. The year's record by itself reflects the success of the Committee's policy of opening large (but not too large) offices and enlarging those that already exist. That ensures that fewest competent pricers need be taken off pricing work for training the recruits. The need to try (often unsuccessfully) to persuade staff to go to other towns and "give up their homes, friends, etc., and go into comparatively expensive lodgings among strangers" as the report humanly puts it, is also avoided. Information on the rate of turn-round of junior staff might throw light on other difficulties facing the organisers of pricing. Contractors will derive little comfort from the calculation that at the present rate of progress, arrears would take twenty years to be wiped out. Even allowing for the rate to increase the process must be lengthy. For the majority averaging continues to be strikingly accurate.

An International Development

THE first international conference of hospital pharmacists (p. 465) is to be acclaimed a success if only on the number of those attending. Hospital pharmacy, like other branches of the calling, differs greatly from country to country and it is desirable that those engaged in it shall have a forum where they can meet and exchange ideas. Tribute must be paid to the Swiss organisers for taking the initiative to ensure that that has come about. A natural place for the forum would appear to be in the wider international pharmaceutical organisation as was suggested, but danger of too much sectionalisation must be guarded against. While useful contacts were made and information obtained by those attending the value of the conference could have been increased if more time had been available for discussion (with the papers read in abstract). Written summaries in English would have been helpful to some members. If only from the point of view of prestige of British pharmacy a scheme for aiding travel to future conferences is worthy of consideration, so that Britain may be proportionately better represented.

Training Chemical Engineers

PAPERS read at the 114th meeting of the British Association (see p. 478) should help the campaign for recapturing some of the ground in the training of chemical engineers that Britain lost in the inter-war years, and it is noteworthy that the principles of training for the chemical industry that were outlined accord well with those outlined recently by Mr. D. Train (*C. & D.*, August 2, p. 167) as being applicable to pharmaceutical engineering studies. The payment of royalties to competitors for "know-how" (a practice said by a speaker in the chemistry section to be growing) was rightly denounced. Instead, the need was stressed for a graduate in chemical engineering to be so developed that when faced with a new situation he could bring to it a competence combining "skill, initiative and leadership." The meeting welcomed a recently instituted means of creating "N.C.O.'s" in chemical engineering.

ESSENTIALS OF TREATMENT

A C. & D. "post-graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

By a Medical Man

I. DYSPEPSIA

WHEN considering the treatment of any condition it is essential to determine whether the condition is a disease in itself, or part of a larger syndrome. Dyspepsia is not a disease, but a symptom denoting nothing more than the literal translation of its Greek derivation: "inability to digest." It can have many causes, as will be seen from a consideration of the physiology of gastric digestion.

General Considerations

Gastric juice is acid in reaction, and when examined after the ingestion of food it is found to contain, in addition to the secretions of the gastric mucosa, secretions of the salivary glands, which have been conveyed into the stomach with the food. Free acid, pepsin amylase, lipase and mucin would thus be found in any analysis of the gastric contents. Amylase, which is part of the salivary secretion, continues to act for some time because food enters the stomach as a round ball, known as a bolus, which cannot be penetrated immediately to its centre by the gastric secretions. Pepsin is a proteolytic enzyme breaking down proteins to peptones. Lipase acts upon fats provided the reaction is not too acid. The initial stimulus to gastric secretion is nervous in origin, and is the result of a reflex action initiated when food enters the mouth or, in some cases at the sight or smell of food. The path by which the stimulation is carried is the vagus nerve, and to a lesser extent the sympathetic system. The nervous stimulation is, however, short-lived. It is succeeded by hormonal stimulation. The hormone, gastrin, is believed to be produced in the secretory cells of the gastric mucosa as a result of chemical excitation. The chemical itself appears to be a resultant product of the action of gastric juice on protein.

Gastric digestion is, therefore, a com-

plicated process, set in motion by a number of impulses, and any defect in the process or stimulation can alter affairs so as to produce symptoms of dyspepsia. The secretory cells can be damaged as a result of ingestion of toxic material; they can be congested as a result of generalised oedema, such as is found in congestive heart failure. There can be localised inflammation, and there can be over-stimulation of the nervous system. Common conditions that present dyspepsia as a symptom include nervous anxiety, peptic ulceration, gastritis (acute or chronic), cancer of the stomach, irritation of the gastric mucosa by toxins or chemicals, infective conditions, congestive cardiac failure, pernicious anaemia and (due to causes outside the stomach) cholecystitis.

Gastritis

Although gastritis can occur in several forms, from the point of view of treatment it falls into two main categories—acute and chronic. Acute gastritis may be the result of corrosive poisoning, when the appropriate antidote is given as treatment, or it may be less severe, when it is sometimes known as catarrhal gastritis. That is usually the result of indiscretion in the choice of food, excessive smoking, alcohol, or contaminated food. In all cases the most prominent symptom is nausea or vomiting, frequently associated with abdominal pain. Treatment consists of gastric lavage wherever possible, either with warm normal saline or with a weak solution of sodium bicarbonate. Lavage can be supplemented by small doses of alkaline carbonates. If there is much mucus, a solution of 0.5 to 2 per cent. of hydrogen peroxide (10 vols.) in warm water is sometimes of value as a gastric lavage. The patient should be starved during the initial stages on the first day, given merely warm water to drink, and the diet gradually re-

stored to normal by the inclusion in the diet of barley water, milk and other bland foods.

Chronic gastritis is characterised by vomiting, particularly in the early morning, with the production of much mucus. Normally there is a diminution of hydrochloric acid secretion in the stomach, though in a few cases the reverse may be the case. Frequently the condition is associated with continued taking of spicy foods, excessive smoking or taking too much alcohol (particularly neat spirits). As in acute gastritis, gastric lavage is of value, particularly if it is done in the early morning. Alkaline carbonates, taken with copious amounts of fluid on an empty stomach, help inasmuch as they assist disintegration and removal of excessive mucus. Since hyperacidity is not a common feature of the condition, the prescribing of carbonates as antacids is seldom indicated. In fact, many such cases benefit from the administration of an acid mixture before meals, A suitable prescription being:

R. Acid. hydrochlor. dil. 3ss.
Syr. limonis. 3i.
Aqua. chlorof. ad 3ss.
M. flat. mist.
Sig. 3ss. to 3i t.i.d. ex aq. a.c.

Nervous Dyspepsia

Nervous dyspepsia is a condition which must be included in the differential diagnosis of gastritis. Vomiting is not such a prominent symptom, though there may be nausea and symptoms of abdominal pain and discomfort. It is now well established that anxiety and stress can cause an over stimulation of the gastric secretion, with the production of dyspepsia. It is of little benefit to the patient, however, to tell him that his condition is merely the result of an anxiety neurosis. He should always be referred to a medical practitioner for a full medical examination in order to exclude any organic disease. The examination, coupled with the knowledge that there is no organic disease, will go a long way to relieve his anxiety and, when the etiology of his condition has been explained to him, he will be more receptive to treatment and less likely to fix his neurosis on some other organ of the body. Treatment is symptomatic, but sedatives are the most important of drugs if medication is necessary. The patient should be sedated during the day as well as at night, and so a long-acting sedative is indicated. In many cases phenobarbitone gr. $\frac{1}{2}$, two or three times a day, is all that

is required. In others, where abdominal pain is prominent, a mixture such as the following is valuable:

R. Magnes. carb. levis. gr. x.
Magnes. trisilicat. gr. xv.
Sodii bicarb. gr. x.
Tinct. card. aromat. min. v.
Aqua. chlorof. ad. 3ss.
M. flat. mist.
Sig. 3ss. t.d.s. p.c. ex aq.

In other cases, where a sense of abdominal distension is uppermost, a bitter, such as the following, may be prescribed:

R. Sodii bicarb. gr. x.
Infus. gent. co ad. 3ss.
M. flat. mist.
Sig. 3ss. t.d.s. ex aq. a.c.

Peptic Ulcer

Peptic ulceration is the cause of a high percentage of cases of dyspepsia, but discussion of it is being held over until the next article. One must always be most careful in dealing with a middle-aged patient complaining for the first time of persistent dyspepsia. Such a patient may well be a case of cancer of the stomach, in which the main symptoms are dyspepsia, nausea or vomiting, poor appetite, lassitude and possibly some abdominal pain. Loss of weight may be apparent. The vomit, if present, is usually coffee-coloured and looks like coffee grounds. The poor appetite is expressed as a distaste or disinterest in food in general in contradistinction to cases of peptic ulceration. To be successful, treatment must be undertaken at the earliest moment, because symptoms seldom appear before the condition is approaching the inoperable state. Diagnosis is based on the results of clinical examination, x-ray examination and the discovery of achlorhydria following a test meal. As soon as the diagnosis is reasonably substantiated, surgery forms the main basis of treatment.

The treatment of dyspepsia associated with other diseases and conditions, such as cardiac failure, nephritis, anaemia and pregnancy, is treatment of the cause supplemented by symptomatic treatment along the lines described for nervous dyspepsia.

(To be concluded)

Record Blood Donations.—The numbers of blood donations (161,880) given and of blood donors (481,422) on the panels of the National Blood Transfusion Service in England and Wales in the second quarter of 1952 were higher than those of any post-war quarter.

CORRESPONDENCE

Letters may be sent for publication under an assumed name, but the correspondent must furnish his real name and address to the Editor

Misleading Prices

SIR.—May I respectfully suggest that advertisers should always state in their announcements the purchase tax (if any) on their products. To give the trade price of an article retailing at 1s. 9d. as 1s. per doz. makes it look as though the retailer is making a profit of nearly 100 per cent., a very different state of affairs from what actually happens. S. E. A.

Inviting Disaster

SIR.—Most private chemists were relieved, even amused, when, as an alternative to advertising dispensing services, big business decided to advertise "lots of drugs for little money." That is where the independent private pharmacist comes into his own. He offers a wealth of experience plus real personal attention that makes the "300 for 2s. 8½d." aspirin salesman look rather silly. However, a new and indirect attack on the private chemist is rather more serious. Intensive propaganda is being used to persuade the medical profession to order certain ethical lines on form EC10. This is normal procedure on the face of it, but what is abnormal is that the makers have hundreds of retail pharmacies throughout the country, as well as manufacturing laboratories. Thus they are operating as research chemists, manufacturers, and contractors under N.H.S. all in one. Last week I was chatting with a representative in my dispensary when I was handed a prescription in EC10 for one of these new ethicals. The representative said he had just left the pharmacy of Mr. So and So and whilst there had seen a similar prescription handed in. The proprietor returned to the patient saying: "You will have to take this to . . . (a well-known multiple). It's one of their lines!" This was probably an isolated case. It could happen that the doctor would write the name of the manufacturer on the form (which could be quite legitimate), and that the patient, seeing the name, would take it to the nearest branch of the firm concerned. Unless this is checked at the beginning it may become a practice liable to increase. It could be illegal for a firm of N.H.S. contractors to send representatives to doctors suggesting that they should order the products of that firm. Until the position is clarified I suggest that pharmacists re-

ceiving prescriptions for "multiple" ethicals should dispense them, buying small supplies from the nearest branch. To send customers with N.H.S. prescriptions to "big business" competitors is inviting disaster.

Twyford.

C. H. PATRICK.

A Challenge to Penicillin?

SIR.—During the past twelve months it has been my privilege since leaving pharmacy in Britain to wander in some of the lesser-known spots of Papua and New Guinea, where man is still in an extremely primitive state and sorcery plays a vital part in his life (and medicine). Recently I witnessed an impressive feat of native medical ability. A native with a large and painful sty on his left eye went to the village elder for assistance. Mumbo jumbo was said for a few minutes and then the native went to collect a few leaves from a mango tree. He then pressed them and permitted the exudate to cover the sty. Within twelve hours the sty had disappeared, all inflammation and swelling gone, and the eyelid was normal. The native assured me the elder had not touched the eye at all. He merely said a few words and issued advice. One wonders if penicillin would be so expeditious? In some areas the natives prepare a decoction, reported to be effective, of leaves and growing tips of a herb to take as a cure for "grille," a fungous skin infection which attacks the whole of the body, causing the skin to flake. One of the white man's efforts to cure the condition consists of having the native washed and then painting the whole of his body with 20 per cent. salicylic acid in liq. iodi. fort. Amazingly enough this produces no harmful reaction on the native—but it is believed to be a good fungicide.

Rabaul, Yours faithfully,
New Britain. KENNETH E. WHITE.

N.H.S. STATISTICS

In LINCOLNSHIRE (HOLLAND), total expenditure for the year ended March 31, was £266,983 (compared with £299,799 for the previous year). The average cost per head was £2 12s. 7d. Pharmaceutical services cost £71,893 (£58,637). The increase was due to a rise in wholesale cost of drugs and appliances. The number of prescriptions dispensed was 332,890.

SCIENTISTS MEET IN BELFAST

THE 114th annual meeting of the British Association for the Advancement of Science was held in Belfast from September 3-10.

Chemistry

Addressing the chemistry section, PROFESSOR W. WARDLAW, Birkbeck College, London (president of the section), drew attention to the growing interest in silicones (among other silica compounds). Important properties of the silicones were their water repellancy and inertness.

The growing importance of the chemical industry was shown by the 1948 Census of Production which revealed a shift in national productive resources and output from industries such as mining and textiles towards chemicals and other industries. The chemical industry had been a spearhead in the drive for exports and particularly in the groups of drugs, medicinals, dyes, etc. Applied science drew its life-blood from pure science. Although chemists might be fascinated by applied science it must never weaken allegiance to pure science. Professor Wardlaw concluded with a warning that the lack of competent and enthusiastic teachers of chemistry might well imperil the position of chemistry in the future.

PROFESSOR M. STACEY, Birmingham University, discussed in a paper read before the section the significance of polysaccharides in immunisation, blood transfusion, blood anticoagulation, virus diseases, allergy, rheumatism and other disease conditions.

Chemical Engineering

In a paper on "The Training of Chemical Engineers," PROFESSOR D. M. NEWITT, Imperial College, London, said that Britain had to recapture some of the ground in that training lost to America and Germany. The growing practice of paying royalties to competitors was undesirable; not only was purchased "know-how" always out of date, but the practice denied to British technologists opportunities for widening their experience and displaying their skill and initiative. Combined action by industry and schools was required. The objective of chemical engineering training in the opinion of Professor W. H. Lewis, was "the development of the capacity of the student when faced with a new and unfamiliar situation, to handle it with a

competence involving skill, initiative and leadership." In a paper entitled "The Chemical Engineer in Industry," DR. E. H. T. HOBLYN, London, said that chemistry and engineering must be taught for chemical engineering and there must be no "stuffing of students with facts" at the expense of fundamental principles. His engineering training should be directed towards a clear understanding of such questions as the flow of fluids, transfer of heat strength of materials and its application to vessel design rather than towards, for instance, a study of mechanisms. The most significant advance recently had been the establishment of Higher National Certificates in chemical engineering. Industry should welcome the new courses which would produce what had already been described as the N.C.O.s of the chemical and chemical-plant industries.

Physiology

In his presidential address to the physiology section, PROFESSOR R. C. GARRY reviewed the "Nervous Control of the Movement of the Alimentary Canal." His object was to show the alimentary canal as an integrated system controlled by, and influencing in its turn, the organism as a whole. There were "woeful gaps" in knowledge about the subject.

DR. M. E. COATES in a paper on the "Mode of Action of Antibiotics" presented evidence that antibiotics exert their beneficial effect on growth of chicks by economising certain vitamins and by suppressing a hitherto undescribed condition that prevents the animal from growing at its optimal rate.

FIFTY YEARS AGO

The Living-in System

From the C. & D., October 4, 1902
 On Sunday afternoon, September 28, there was a meeting in Trafalgar Square, London, to protest against the living-in system, the long hours, and low pay obtainable in retail shops. The meeting was promoted by the Amalgamated Union of Shop Assistants, Warehousemen and Clerks, and it was resolved to aim at getting a maximum working-week of sixty hours, compulsory closing of shops, and abolition of the living-in system. Chemists' assistants were conspicuous by their absence from the meeting.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on prescriptions. Editorial recommendation is not implied. Reprints obtainable on application.

HEPATHYOL

MANUFACTURER: C. L. Bencard, Ltd., Great West Road, Brentford, Middlesex.

DESCRIPTION AND FORMULA: Tablets each containing *dl*-methionine, gr. 2½; choline bitartrate, gr. 4½. HOW SUPPLIED: In packages of fifty and 250 tablets.

INDICATIONS: Prophylaxis and treatment of liver diseases, etc.

DOSAGE: Average two tablets three times a day.

FIRST ISSUED: June, 1952.



TRIAZYL

MANUFACTURER: Abbott Laboratories, Ltd., Perivale, Greenford, Middlesex.

DESCRIPTION AND FORMULA: Flavoured candy-like cubes ("Dulcet tablets") each containing sulphadiazine; sulphamerazine; and sulphadimidine, of each 0.1 gm.

INDICATIONS: In infections due to susceptible bacteria.

DOSAGE: Initial dose for children is based on 100 mgm. per kilo bodyweight, rounded to nearest multiple of 0.15 gm. Maintenance doses six-hourly.

HOW SUPPLIED: In bottles of twenty-five tablets.

FIRST ISSUED: June 1952.



MENAPHTHONE SODIUM BISULPHATE

BRAND NAME*: HYKINONE

MANUFACTURER: Abbott Laboratories, Ltd., Perivale, Greenford, Middlesex.

DESCRIPTION: A water soluble derivative of menaphthon, B.P.

INDICATIONS: Hypoprothrombinæmia due to vitamin-K deficiency.

DOSAGE: For newborn infants, 2.5-5 mgm. daily for first three days of life. In obstructive jaundice of moderate severity with moderate reduction of prothrombin, initially 2.5-5 mgm. by injection, up to 10 mgm. if necessary at twelve-hour intervals.

HOW SUPPLIED: 1-c.c. ampoules of solution containing 5 mgm., in boxes of six.

FIRST ISSUED: June 1952.



BENZHEXOL HYDROCHLORIDE

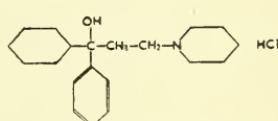
BRAND NAME*: PIPANOL

MANUFACTURER: Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2.

DESCRIPTION: 1-phenyl-1-cyclohexyl-3-piperidyl-1-propanol hydrochloride, a spasmolytic with stimulating effect on the central nervous system.

INDICATIONS: Symptomatic relief in Parkinsonism.

DOSAGE: Average on first day, 1-2 mgm., increasing daily by 2 mgm. until 8 to 10 mgm. is given daily. Nausea and vomiting, which may occur towards the beginning of the treatment, usually clear up on discontinuing the drug for a few days.



HOW SUPPLIED: Tablets, each containing 2 or 5 mgm., in bottles of 100 and 250.

FIRST ISSUED: May 1952.

*A cross-reference in the card index should be made to the non-proprietary name.

BRITISH PHARMACEUTICAL CONFERENCE, NOTTINGHAM, 1952

Science Sessions

(Concluded from THE CHEMIST AND DRUGGIST, September 27, p. 448).

The afternoon session on September 5 started at 2.15 p.m., when THE CHAIRMAN called upon Mr. J. R. Cockton to read the paper:—

Use of Surface-active Agents

A METHOD is described for the evaluation of emulsifying power of surface active agents, based on the measurement of stability of the emulsions they yield. The basic requirement is that the homogenising procedure should be adequate to produce an emulsion capable of being suitably degraded after a convenient time of centrifuging. A microscope is used in counting at equal intervals of time the number of oil globules per given volume of a suitable dilution of an emulsion after centrifuging. The experiments carried out do not confirm that initial small globule size is indicative of emulsion stability (and *vice versa*.) In all cases, an increase in the concentration of surface-active agent produced a larger initial "H" value (expression of the number of millions of globules into which 1 cu. mm. of oil has been subdivided), and in most cases an increased stability. At the lowest concentration studied (0.1 per cent.) there was a marked difference in the behaviour of the various emulgents. At 1.0 per cent. the difference was almost insignificant, particularly in emulsions of arachis oil. In accordance with the normal behaviour of emulgents, the materials under test were less effective for liquid paraffin than for arachis oil.

The paper, which is by J. R. Cockton and J. B. Wynn is from the pharmaceutical Research and Service Laboratories of Imperial Chemical Industries, Ltd.

THE CHAIRMAN said that an emulsion should not be over-stable. As often as not its breaking point was also an important property.

MR. H. P. LEVINS, Dagenham, said that the authors mentioned size-frequency analyses and claimed that the method of globule counts was quicker. In his opinion that method was also more accurate in the measurement of "H," etc. He considered that artificial ageing would give a better picture of emulsion stability than centrifugal force, as it more closely approximated to storage tests. It

appeared to him that they had assumed a direct relationship between the efficiency of an emulsifying agent and the stability of the emulsion produced. He himself had projected the image from the microscope on to frosted glass and counted the globules. He had found that it was a more rapid method.

DR. W. MITCHELL, London, asked whether the authors had found variation in the emulsifying power of different batches of agents. In his experience it was often necessary to reformulate with each batch of emulgent, and that was expensive. Did their mathematical treatment apply when a solid was dissolved in either phase?

MR. E. ADAMS, Plymouth, asked if the authors were fully satisfied that the number of globules was proportional to the total area of interface? They should have checked their method against such tests as non-separation of oil when a few drops of emulsion were dropped into a large volume of water. In practice more than one emulsifying agent was often used in one emulsion, therefore, the authors were attempting to solve what was bound to be a difficult problem.

MR. D. E. SEYMOUR, Welwyn Garden City, asked the authors if they had considered interfacial-tension measurement. Size-frequency analysis was a tedious method and did not correlate so directly with stability as might be supposed. Storage at elevated temperature was useful as a check. Most emulsions broke down rapidly under those conditions. To rely on one method was not entirely satisfactory. Oxidation of emulgents could be a serious factor in breakdown. Metallic ions also tended to increase the degree of oxidation.

MR. T. D. WHITTET, London, remarked that little was known about the pharmacology of many of the new emulgents, and there was scope in their examination.

MR. D. N. GORE, Dorking, said, amid laughter, that unless there were compelling therapeutic reasons, it was unwise ever to emulsify, particularly where a long shelf-life was envisaged. Working with simple systems was one thing; commercial emulsions were another.

MR. A. E. DAVIS asked if the authors

had been able to relate their method to shelf-storage tests.

Replying, MR. COCKTON said that it was doubtful if Mr. Levin's method would be justified, in view of the approximate nature of their calculations. There was a great difference from batch to batch of emulsifying agents. He was interested in the remarks about the interfacial surface-tension method.

The next paper was:—

Assay of Bacterial Pyrogens

THE preparation of a provisional standard pyrogen using *Proteus vulgaris* is described. Rises of temperature and white blood cell changes in the rabbit in response to the standard pyrogen have been investigated. A smaller variance was found in white blood cell changes than in temperature rises.

The paper, the authors of which are M. Dawson and J. P. Todd, is from the school of pharmacy of the Royal Technical College, Glasgow.

Miss M. Dawson read the paper.

DR. J. G. DARE, Leeds, said that it was becoming increasingly important to evaluate the potency of pyrogens. Their trial as therapeutic agents in a wide variety of diseases had already been commenced in America. More information was needed on the blood-cell-count method before its results could be taken as a measure of temperature-raising properties. By refinements in the rabbit method he had been able to reduce the standard deviation to 0.085°C. and the limits of error were 50-200 per cent. of the true value. As there was evidence to show that dosage had to be increased three-fold to bring about a change in response, results within those limits were useful. He asked the authors whether they were sure that the difference which they measured was caused by pyrogens or whether it might be by the stress stimulus of the injection. He quoted from a paper on related work to substantiate his query. A control experiment using non-irritating saline should have been carried out.

DR. K. BULLOCK, Manchester, asked about the non-correlation between the white-cell count and temperature rise.

MR. A. N. SMITH, Nottingham, stressed that, unless the effect described reflected the rise in temperature, it was not a good criterion.

MR. T. D. WHITTET, London, was con-

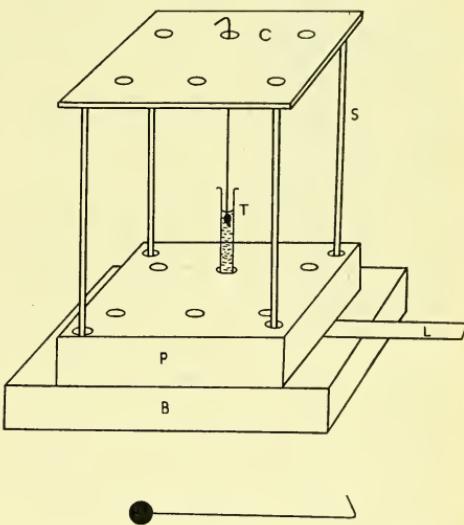
vinced that there was more than one type of pyrogen and wondered whether the non-correlation of the results was general.

In her reply, Miss DAWSON said that the temperature-rise method was inconvenient. The rabbits either died or soon became unusable because of occluded ear veins. The count method had therefore been used.

The next paper was:—

Clotting Times

AN apparatus is described for the simultaneous determination of several clotting times in the assay of blood coagulants and anticoagulants. The accuracy is compared with that obtainable by other methods. Its



application to an assay of heparin is suggested, and the effect of glass-liquid interface and order of mixing in the assay of heparin is investigated. The apparatus (illustrated) consists of a base block (B) on which are mounted four vertical guides (S) up and down which block (P) moves when actuated by lever (L). The block is bored to hold six test-tubes. The top plate holds the vertical guides in position and is bored with holes corresponding to those in the test-tube block. Through the holes in the top plate pass wires, bent to hang from the plate. At the bottom of each wire is a glass bead suspended in the reagents in the test tube. The lever (L) is moved at five or ten second intervals; so long as the contents of the test-tubes remain fluid the wire does not move, but

as soon as a certain critical viscosity is reached the vertical motion of the test-tube is transmitted to the wire indicator, which makes a distinct movement.

The author of the paper, which is from S. Maw, Son & Sons, Ltd., New Barnet, Herts, is D. Maxwell Bryce who read it.

MR. A. N. SMITH, Nottingham, questioned the accuracy of the apparatus, and another speaker asked if the surface of the glass had been treated with silicones.

MR. BRYCE replied that the purpose of the apparatus was to get over the trouble with the operators. When inversion of the tube was too much trouble it was simpler to invent a small apparatus such as that described which was envisaged as a fully mechanised instrument. The effect of surface coating was important; in the assays, comparisons at the same potency level had been made to obviate errors.

The next paper was:—

Mercurial Diuretic Compounds

THE diuretic effect of the two compounds formed by combination of one molecule of the dithiol, 2:3-dimercaptopropanol (dimercaprol) with two molecules of the organic mercury compounds, mersalyl and γ -hydroxymercuri- β -methoxy-propylcamphoramide (mercuprophyllin United States Pharmacopœia) called respectively balmersal and balmecamph, is compared in rats and dogs with that of mersalyl and thiomerin, a monothiol derivative of mercuprophylline and thioglycollic acid. The diuretic activity of balmersal is at least equal to that of mersalyl, but the introduction of the second thiol group in balmecamph abolishes the diuretic effect. The effect of the compounds on electrolyte excretion is studied in dogs. Measurements of the intravenous LD₅₀ in rats, show that the acute toxicity is considerably reduced by combination of the organic mercurials with dimercaprol. Some reduction of the renal toxicity also occurs. Administration of increasing equivalents of dimercaprol to rats reduces the diuretic activity of mersalyl, suggesting that the combination of mersalyl and dimercaprol *in vivo* is a reversible reaction. The significance of those results in the interpretation of the mechanism of the diuretic action of organic mercury derivatives is discussed.

The paper, which is by Eileen I. Short, is from the Wellcome Laboratories of Tropical Medicine, London. Thomas M. Sharp contributes a note on the preparation of the compounds with dimercaprol.

Dr. Eileen Short read the paper.

MR. A. F. CALDWELL, Singapore, said that often in cardiac diseases the kidney became involved, and that it would be useful to reduce the kidney damage of mercurials without interfering with their diuretic effect.

Bringing the science sessions to an end MR. MACKIE said that there had been an almost record number of papers, and that the standard had been high.

NEW GERMAN PROPRIETARIES

The following information from German pharmaceutical periodicals gives details of recently introduced proprietary specialities.

FINALGON OINTMENT.—Finalgon 2.9 per cent. (nonylacid-*vanillylamide*, 0.4 per cent.; nicotinic acid- β -butoxy-ethyl ester 2.5 per cent.) in a liniment-like base. Stimulates intensive heat in the skin, lasting several hours and causing an increase in the circulation of blood to the skin. Indicated for rheumatic pains of all kinds. Made by Dr. Karl Thomas GmbH., Biberach u.d. Riss. (*Dtsch Apothekerzg*, January 4).

CORDALIN-STROPHANTHIN (oxyethyltheophylline 0.226 gm., and *k*-strophanthin, 0.25 gm. in each 5-mil ampoule) for cardiac decompensation in all stages especially angina pectoris, coronary thrombosis. Dosage: One ampoule daily by intravenous injection. Issued in packs of 3, 15, 50, 250 and 500 ampoules, by Chemiwerk Hamburg A.G. Frankfurt-am-Main (*Pharm. Ztg.-Nachrichten*, January 15).

LONGACID (*p*-carboxy-benzolsulpho-di-*n*-butyl amide) for control and inhibition of elimination of PAS and penicillin. Dosage: In PAS therapy 2 tablets, two to four hours before the doses of PAS. In penicillin therapy, 2 tablets to be administered two hours before each penicillin injection up to four times daily. Issued in packs of 25, 250 and 1,000 tablets of 0.25 gm. by Cassell-Farbwerke Mainkur, Frankfurt-am-Main (*Pharm. Ztg.-Nachrichten*, January 15).

PROSPAN (total glycosides of *Hedera helix*, flavoured with essential oils) for pertussis, influenza, cough, bronchitis, etc. Dosage (6-8 times daily) Infants, 5 drops; children up to 5 years, 20 to 30 drops; older children and adults, 30 to 40 drops. To be administered punctually every 1½ hours; in severe cases every hour. Issued in dropper bottle of 20 mils by Fabrik Pharmazeutischer Präparabüle Karl Engelhard, Frankfurt-am-Main (*Pharm. Ztg.-Nachrichten*, January 15).

VIASEPT (Bismuth salt of *p*-glycolylamino-phenylicarsonic acid. Indicated as therapeutic and prophylactic in amebic diarrhoea and in chronic enteritis. Dosage: Course of eight days: adult 1 tablet (0.5 gm.) three times daily; children under ten, ½ tablet, three times daily. Prophylaxis: tablet daily for five days, in spring, summer and autumn. Issued in packs of 24 and 250 tablets by Fabwerke Hoechst, Frankfurt-am-Main. (*Dtsch Apothekerzg*, January 25).

CONFERENCE AUTHORS

Miss MARY DAWSON, Ph.C., co-author of a paper on the assay of bacterial pyrogens, has been working on pyrogens for the past two years under a Wellcome Research Fellowship. She was previously on the teaching staff of the Royal Technical College, Glasgow. Miss Dawson was educated at Airdrie, Lanarks, Academy, and qualified as a chemist and druggist after attending

classes at the Royal Technical College, Glasgow. She entered the business of her uncle, the late Mr. Charles Dawson, M.P.S., Aberfeldy, Perths, but returned to the College to take the Ph.C. diploma in 1947, and was awarded the Pereira medal for that year.

MR. J. B. WYNN, B.Pharm., Ph.C., co-author of a paper on the evaluation of emulsifying power of surface-active agents, has been engaged on speculative pharmaceutical research with Imperial Chemical Industries, Ltd., Blackley, Manchester, since he was demobilised from the Army, in which he served as chief instructor at the Middle East School of Dispensing, with the rank of War-

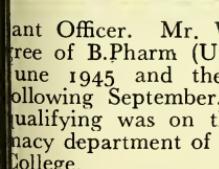
ant Officer. Mr. Wynn gained the degree of B.Pharm (University of Wales) in June 1945 and the Ph.C. diploma the following September. His first post after qualifying was on the staff of the pharmacy department of Sunderland Technical College.

MR. RUSSELL J. HOBBS, Ph.C., co-author of a paper on the stabilisation of penicillin solutions with hexamine, has been with the research and development division of Glaxo Laboratories, Ltd., since May 1950. He is leaving in September to

become an assistant lecturer in pharmaceutics at Bristol College of Technology. He was apprenticed with Mr. J. Williams, M.P.S., Bristol, and served with the Royal Army Medical Corps from August 1930 to April 1946. He qualified as a chemist and druggist from Bristol College of Technology in 1948, gaining the silver medal of the College. Mr. Hobbs gained his Pharmaceutical Chemist diploma from Birmingham College of Technology in 1949, and was a prizewinner in pharmaceutics.

MR. PETER G. W. SCOTT, B.Sc., is the author of a paper on the detection and determination of isoniazid; it is his first major publication. He is a member of the staff of the pharmaceutical research laboratory of May & Baker, Ltd., Dagenham, Essex. Mr. Scott was educated at Eggar's Grammar School, Alton, Hants, and Barking Abbey School, Barking. On matriculation he started work in the analytical control laboratory of May & Baker, Ltd., in August 1944. In 1950 he was transferred to analytical research in the analytical development department of the company. After evening study at Dagenham and part-time study at Birkbeck College, University of London, he gained a B.Sc. degree in chemistry in 1951.

MR. A. F. CALDWELL, B.Pharm., Ph.C., A.R.I.C., Singapore, is senior lecturer at the University of Malaya and head of the Department of Pharmaceutics. Trained at Brighton Technical College, he was Pereira medallist in 1930, and in that year joined the teaching staff of the college. In 1935 he took up a position with the Malayan Medical Service, and was posted to Singapore as hospital pharmacist and lecturer in pharmaceutics at King Edward VII College of Medicine. He was interned by the Japanese, 1942-45, and on release spent a period of leave in Australia and Great Britain. Mr. Caldwell was transferred to the University of Malaya on its foundation in 1949. He contributed to science discussions at the Conference.



TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, OCTOBER 1

THE volume of business done in PHARMACEUTICAL CHEMICALS was at about the same level as in previous weeks. On October 1, the prices of BISMUTH SALTS were reduced. BISMUTH CARBONATE at 24s. 5d. per lb. for 1-cwt. lots shows a reduction of 2s. 11d. per lb. ASPIRIN was also reduced from the same date. Prices throughout that schedule are one penny per lb. less and TABLETS are lower by halfpenny per 1,000. From October 7 a further list of fifty-nine chemicals is to be added to the list of chemicals liable to Key Industry Duty (see p. 468).

In the CRUDE DRUGS market CASCARA SAGRADA continued very firm during the week as reports were received that shippers could not accept new orders for the 1952 peel. Tinnevelly SENNA, both LEAVES and PODS, are also scarce at origin. There are no prime No. 1 or No. 2 leaves offering at the moment from source. All grades of pods showed some advance in price over previous values. GUM ACACIA was advanced on receipt of higher quotations from origin. TOLU and PERU BALSAMS were easier on the spot and at origin. Shipment offers of new-crop Portuguese ERGOT were about ninepence per lb. lower than in the previous week. Holidays at Calcutta and lower prices there together with lack of demand in the United Kingdom reduced the spot values of SHELLAC by about 10s. per cwt. for all grades. Merchants have lately complained that they have been unable to supply their overseas customers with such drugs as IPECACUANHA and SENECA which originate in hard currency areas. They point out that their customers in countries such as the Scandinavian countries do not wish to purchase large quantities from the origin, and look to London to supply the bale or two they require. The Government's attitude to the question is that the country loses dollars by such transactions since the U.K. must pay dollars for the material and in return receives sterling. The present payment position between this country and North America does not permit any relaxation of the licensing system. Among the ESSENTIAL OILS which were quoted lower for spot material were CAJUPUT and Bourbon GERANIUM. Ceylon and Java CITRONELLAS were also weaker at origin.

U.S. Drug and Chemical Report

NEW YORK, SEPTEMBER 30
THE CHEMICAL market has continued quiet with an upward tendency in values but no actual price changes of great importance.

DRUGS and FINE CHEMICALS displayed an easier undertone in the past weeks. The ALCOHOL market was weak as were the antibiotics PENICILLIN and STREPTOMYCIN. TOLU BALSAM was easier at \$4.25 per lb. (down 5 cents), as was PERU BALSAM at \$1.35 (5 cents). Higher per lb. were SENECA at \$2.35 (up 10 cents), and GUM ACACIA at 15½ cents. Because of recent sharp advances in shipping prices, the spot market in oil CANANGA is firmer with native oil being quoted up to \$10.50 per lb. up \$1.25.

Exchange Rates on London

Rates at the opening on Wednesday morning were:—

Centre	Quoted	Rate
*Alexandria ...	Piastres to £	97½—97¾
Amsterdam ...	Florins to £	10.50—10.72
*Bombay ...	Shillings to rupee	1/5½—1/6½
Brussels ...	Francs to £	139—141
Copenhagen ...	Kroner to £	19.20—19.48
Dutch West Indies	Florins to £	5.24—5.32
*Hong Kong ...	Shillings to \$	1/2½—1/2½
*Israel ...	£I to £	99¾—100⅓
Karachi ...	Shillings to rupee	2/1 5/2—2/1 1/2
Lisbon ...	Escudos to £	79.90—81.10
*Montreal T.T. ...	Dollars to £	2.67½—2.67½
New York T.T. ...	Dollars to £	2.78—2.82
Oslo ...	Kronor to £	19.85—20.15
Paris ...	Francs to £	972—988
*Singapore ...	Shillings to \$	2/3 1/2—2/4 1/2
Stockholm ...	Kronor to £	14.37—14.60
*Teheran ...	Rials to £	89.40—91.00
Zurich ...	Francs to £	12.14—12.35

*Free market rates; remainder Bank of England.

Pharmaceutical Chemicals

ANTIMONY SALTS.—Quotations for POTASSIUM TARTRATE, B.P., are 6s. 6d. per lb for 1-10-cwt. and SODIUM TARTRATE, B.P. 13s. 3d.

ASPIRIN.—Prices are as follows:—5-cwt. lots, 4s. 9d. per lb.; 1-cwt. 4s. 9½d.; 28-lb., and under 1-cwt., from 5s. 7d. to 6s., according to pack. Rate per 1,000 for TABLETS are as follows:—5,000, 5s.; 5,000 and over, 4s. 10d. 10,000, 4s. 9d.; 25,000, 4s. 7d.; 100,000, 4s. 5d.; 250,000, 4s. 4½d.; 1 million, 4s. 3d.

BISMUTH SALTS.—Reduced from October 1. New prices (per lb.) in largest bulk packages are as follows:—

	1-cwt.	28-lb.	7-lb.
	s. d.	s. d.	s. d.
CARBONATE ...	24 5	24 8	28 6
SALICYLATE ...	23 2	23 5	27 1
SUBGALLATE ...	22 2	22 5	25 11
SUBNITRATE ...	21 8	21 11	25 4

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates.

BROMIDES.—POTASSIUM B.P. crystal in 5-cwt. lots is 2s. 10d. per lb.; 1-cwt., 2s. 11d. per lb. Powder is 1½d. per lb. more. AMMONIUM is 2s. 11d. per lb. in 5-cwt. lots and SODIUM, 2s. 9d. per lb.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s. per ton.

DEXTROSE, B.P.—Rates are as follows:—

MONOHYDRATE	1-4 cwt.	5-cwt.
½-lb. carton ...	12s. 9d. doz.	—
1-lb. carton ...	23s. 6d. doz.	—
7-lb. tin ...	13s. 3d. each	12s. 3d.
14-lb. tin ...	25s. 0d. each	23s. 6d.
28-lb. tin ...	47s. 0d. each	45s. 0d.
	Above, less 12½ per cent. to wholesalers, delivered.	
In bulk ...	£127 per ton, ex works or store, for minimum 1-ton lots.	

ANHYDROUS	1-4 cwt.	5-cwt.
7-lb. tin ...	13s. 9d. each	12s. 9d.
14-lb. tin ...	26s. 0d. each	24s. 6d.
28-lb. tin ...	49s. 0d. each	47s. 0d.
	Above, less 12½ per cent. to wholesalers, delivered.	
In bulk ...	£132 per ton, ex works, for minimum 1-ton lots.	

QUININE.—Makers' rates (per oz.) to home-trade distributors are given below:—additional charges must be added for repacking, etc. ALKALOID, from 5s. to 6s. 6d. ACETYLSALICYLATE, 6s. 3d. to 6s. 9d.; BISULPHATE, 3s. 7d. to 4s. 1d. DIHYDROBROMIDE and DIHYDROCHLORIDE, 5s. 11d. to 5s. 5d.; FORMATE, 5s. 9d. to 6s. 3d.; GLYCEROPHOSPHATE, and PHOSPHATE, 5s. 5d. to 5s. 11d.; HYDROBROMIDE and HYDROCHLORIDE, 4s. 6d. to 5s. SALLYLATE, 4s. 10d. to 5s. 4d.; SULPHATE, 4s. 0s. 6d.; QUININE and UREA HYDROCHLORIDE is quoted from 4s. 10d. to 5s. 4d.

STRYCHNINE.—Current rates per oz. are given in the following table:—

SALT	Under 25 oz.	25 oz.-	100 oz.-	500 oz.
		99 oz.	499 oz.	and over
ALKALOID, B.P.C.	s. d.	s. d.	s. d.	s. d.
7 10	7 8	7 8	7 6½	7 5
SULPHATE ...	6 8	6 6	6 4½	6 3
HYDROCHLORIDE, B.P. ...	7 5	7 3	7 1½	7 0
ITRATE, B.P.C.	7 5	7 3	7 1½	7 0
HOSPHATE	8 6	8 4	8 2½	8 1
SULPHATE, B.P.C.	6 11	6 9	6 7½	6 6

special discounts for large buyers.
In 5-cwt. drums prices are 1s. per cwt. less than above. Terms: Net, delivered nearest railway station in Great Britain; returns charged extra and returnable.

SULPHATHIAZOLE.—Price (per lb.) for 5-cwt. lots is 21s. 9d.

Crude Drugs

AGAR.—Firm. Kobé No. 1 on the spot is now about 17s. 3d. per lb.

ALOES.—Prime Cape is about 157s. 6d. per cwt., c.i.f., and spot, 175s. Curacao is 360s. per cwt., spot.

BALSAMS.—*Canada*: Spot is 27s. 6d. per lb. for clear bright, paper-filtered; forward, 25s. 6d. per lb., c.i.f.; *Copaiba*: Para is offered on the spot at 13s. 6d. per lb., duty paid. Peru is 12s. 9d. per lb., duty paid. *Tolu* (genuine as imported) on the spot is 23s. 6d. per lb., in original cases and for shipment, 22s. c.i.f.

BENZOIN.—No. 1 Sumatra block on the spot is quoted at from £27 per cwt. and for shipment, £24, c.i.f. Siam almonds are from 25s. to 35s. per lb., spot., as to size.

BISMUTH.—Reduced. In minimum 5-cwt. lots METAL is 17s. per lb.

CAMPHOR.—Chinese (B.P.) powder on the spot is 3s. 9d. per lb., in bond; ½-oz. tablets are quoted at 5s. 10½d. per lb., duty paid; 2½-lb. slabs, 4s. 9d. per lb., duty paid.

CASCARA SAGRADA.—Firm. American bark, 1951 peel, is 325s. per cwt., duty paid. New crop is 315s., duty paid.

CHILLIES.—Quiet. Sierra Leone on the spot are 175s. per cwt.; for shipment, 135s., c.i.f.; Mombasa, 190s., c.i.f. and 210s., spot.

CLOVES.—Firm. Quotations for Zanzibar on the spot are 10s. per lb. and 9s. 6d., c.i.f., for shipment.

ERGOT.—New-crop offers of Portuguese are 15s. 9d. per lb., c.i.f. October-November shipment. Spot supplies are 20s. per lb.

GUM ACACIA.—Kordofan cleaned sorts on the spot are 112s. 6d. per cwt.; October shipment, 105s.

IPECACUANHA.—Forward offers of Nicaraguan, September-October shipment, are from 41s. to 42s. per lb., c.i.f., and Colombian, 38s., c.i.f. Spot quotations are: Nicaraguan, 42s. 6d. to 44s., Colombian, 41s.

MENTHOL.—Chinese 57s. 6d. per lb., Brazilian, 44s. 6d., both duty paid.

NUTMEGS.—Quiet. West Indian 80's quoted at 3s. 3d. per lb. on the spot and 2s. 6½d. c.i.f. for shipment. East Indian in cases for shipment, 2s. 7d., c.i.f.

ORANGE PEEL.—Bitter quarters are from 1s. 3d. to 1s. 4d. per lb., duty paid.

ORRIS ROOT—Offers of good quality Florentine are now 155s. per cwt., ex warehouse.

PAPAIN.—East African, grade 1 is 40s. per lb.; Ceylon white, 41s., and sun-dried, 36s., on the spot.

QUASSIA.—Chips on the spot are available at 34s. 6d. per cwt.; forward offers are 32s. 6d. c.i.f.

QUILLAIA.—Forward rates for whole bark are £95 per ton., c.i.f. Spot, £140.

SANDARAC.—Morocco is offering on the spot at 16s. per lb.

SEEDS.—ANISE.—Unchanged. Cyprus, 150s. per cwt., duty free; Turkish, 145s., duty paid. CARAWAY.—Dutch are easier with sellers at 92s. 6d. per cwt., duty paid. CELERY.—Unchanged. Indian, on spot, 1s. 10½d. per lb., and French, 2s. 3d., duty paid. CORIANDER.—Market continues quiet. Morocco, 45s., duty paid. Shipment: Morocco for September - October is still quoted at 36s., c.i.f. London. CUMIN.—More enquiry. Spot, Cyprus, 175s. per cwt.; Morocco, 190s., duty paid; Indian, 190s. Shipment: Cyprus, 135s.; Morocco, 175s.; Indian quoted 175s. to 185s. for new-crop, January-February, 1953, shipment. DILL.—Indian on spot is offered at 80s. per cwt. FENNEL.—Indian, 200s. per cwt., quoted. All French has been cleared and 180s., c.i.f., now quoted for shipment. FENUGREEK.—Morocco, 41s. 6d., duty paid, ex store London or Liverpool. MUSTARD.—English, 87s. 6d. to 110s. per cwt., according to quality.

SENEGA.—Spot supplies are 14s. 6d. per lb. First-hand sellers at origin are asking 15s. 6d. per lb., c.i.f.

SENNA.—*Tinnevelly*, Prime No. 3 LEAVES are 11d. per lb., c.i.f. PODS, f.a.q., are from 1s. 6d. to 1s. 8d. per lb., and hand-picked, 2s. 6d. to 2s. 10d., c.i.f.

SHELLAC.—Lower. Spot quotations are:—F.O.T.N., pure, 180s.; F.O. standard No 1, 200s.; fine orange, 220s. to 265s. per cwt., ex-London warehouse.

SQUILL.—Italian white new-crop is offered from origin at 57s. 6d. per cwt. c.i.f. London. Spot is from 60s. per cwt.

TURMERIC.—Madras finger on the spot is 62s. 6d. per cwt., and forward, 56s. 6d. c.i.f.

VALERIAN.—Indian is offered at 135s. to 137s. 6d. per cwt., spot. Belgian at about 200s.

VANILLIN.—Rates (per lb.) are as follows:—5-cwt. lots, 40s.; 1-cwt., 40s. 3d.; 56-lb., 40s. 6d.; smaller quantities, 40s. 9d.

WAXES.—BEES'.—Dar-es-Salaam on the spot is 425s. per cwt.; October-November shipment, 360s., c.i.f. CANDELILLA.—Spot is 645s. per cwt. CARNAUBA.—Prime yellow, spot, 1,240s. per cwt.; November-December shipment, 1,170s. Fatty grey, spot, 890s. per cwt., afloat, 875s., c.i.f., and shipment, 860s., c.i.f. MONTAN.—Reibek crude on the spot is 135s. per cwt. OURICURI.—Spot, 0.5 per cent. impurities, 700s. per cwt. SPERMACETI.—Case lots are 2s. per lb.

Essential and Expressed Oils

CAJUPUT.—Lower. Spot supplies are offered at 22s. 6d. per lb.

CITRONELLA.—Spot prices for original drums are: Ceylon, 3s. 9d. per lb.; Formosa, 4s., in bond; Java, 4s. 3d. in bond. Forward: Ceylon, 3s. 4d.; Formosa, 3s. 7d., and Java, 4s. 2d., all c.i.f., October shipment.

EUCALYPTUS.—Drum lots of 70 to 75 per cent. eucalyptol on the spot are 6s. 3d. per lb., and 80 to 85 per cent., 6s. 9d.

GERANIUM.—Bourbon on the spot is 80s. to 82s. 6d. per lb.

JUNIPER BERRY.—Imported oils are offered at 21s. per lb., duty paid. English distilled is offered at 75s. to 95s. per lb. as to seller and grade.

LAVANDIN.—Quotations for spot supplies are about 17s. 6d. per lb.

LAVENDER.—French, 40-42 per cent. linalol on the spot is from 42s. 6d. per lb.

LAVENDER SPIKE.—Spanish is firm at 11s. 6d. per lb., duty paid.

LEMON.—Sicilian hand-pressed (4 per cent. citral) is quoted at from 40s. to 46s. per lb., c.i.f.; spot is from 40s. to 50s. according to quantity and holder.

LEMONGRASS.—Forward quotations are 7s. 1½d. per lb., c.i.f., and spot, 8s. per lb.

NUTMEG.—English-distilled oil is about 38s. per lb. Imported oil (B.P.) is offered at 26s. per lb., duty paid for drum lots.

ORANGE.—Spot offers of sweet range from 16s. 6d. per lb. to 19s. 6d. per lb.

ORIGANUM.—In original containers the price is 14s. per lb.

PALMAROSA.—Spot quotations for Formosa are 37s. 6d. per lb. East Indian is 52s. 6d., c.i.f.

PATCHOULI.—Seychelles on the spot offered at 50s. per lb.

PENNYROYAL.—Drum lots are about 15s. per lb., duty paid.

PEPPERMINT.—*Arvensis*, Chinese oil firm on the spot at from 37s. 6d. per lb. Japanese, 36s.; Brazilian, 17s. to 18s. 3d. as to holder. Italian "Mitcham" type oil, 54s. per lb. for original drums, spot and 50s., c.i.f., forward.

PETITGRAIN.—Paraguay on the spot from 21s. per lb.

PIMENTO BERRY.—English-distilled oil 57s. 6d. per lb. Imported oil is from 55s. per lb., spot.

ROSEMARY.—Spanish oil on the spot is from 6s. per lb., duty paid.

SAGE.—Spanish is offered at 8s. 6d. per lb., spot.

VETIVERT.—Bourbon in original drum on the spot is about 125s. per lb.

ZANZIBAR CLOVE SUPPLIES

THE market review for the quarter ended June 30 (the final quarter of the seasonal year 1951-52) published by the Zanzibar Clove Growers' Association, states that supplies of cloves for the months under review totalled 1,019,113 lb. of which 30,179 lb. was the produce of Pemba. The seasonal year closed with a total crop of 335,899 frasilas.

The average price for the twelve months was Shs. 424.19 per 100 lb., ex duty. During the quarter Singapore was the chief buyer taking 89 per cent. of the clove exports. The United Kingdom was not a purchaser during the quarter but took 3.6 per cent. of the total year's exports. For the period October 1—September 30, 1953, the duty payable on cloves exported will be Shs. 108.16 per 100 lb. (against Shs. 50.47 previously).

Arrivals of stems at the Association's dépôt for the quarter totalled 51,554 lb. clove stem oil, totalling 58,974 lb. was

shipped to the U.K. during the quarter. Exports of Chillies for the quarter totalled 25,840 lb., the U.K. taking 20,240 lb.

The crop figures for cloves are compared with those of the previous season in the following table:—

MONTH	1951-52		1950-51	
	lb.	lb.	lb.	lb.
July ...	627,377		147,738	
August ...	671,827		488,196	
September ...	728,939		3,197,748	
October ...	956,299		8,034,035	
November ...	1,495,489		8,243,611	
December ...	1,702,925		7,610,454	
January ...	2,559,790		7,302,953	
February ...	1,462,744		5,106,345	
March ...	531,970		1,933,250	
April ...	377,895		556,380	
May ...	427,813		389,155	
June ...	213,405		403,214	
Total ...	11,756,473		43,413,079	

WORLD

Japanese Essential Oil Imports.—Japanese imports of essential vegetable oils during the first four months of 1952 amounted to 99,083 kilos, valued at 43,809,000 yen, against 439,356 kilos, valued at 795,515,000 yen, in the full 1951 calendar year.

New Synthesis of Vanillin.—Lignin—by-product contained in sulphite liquors from the wood pulp industry—is being used as a basic raw material by Monsanto Chemical Co., St. Louis, U.S.A., for the synthesis of vanillin. Material from the new process will supplement supplies of vanillin obtained by the old method which still to be used.

Ceylon Increases Import Duties.—Items which the Ceylon authorities are objecting to an additional import duty of 10 per cent. of the rate payable under the existing law include the following:—aromatic chemicals and synthetic and natural essential oils (other than ylang-ang, vetiver and geranium); gum benzoin (benzoin); perfumery, cosmetics, powder and toilet preparations including hair oils (except perfumed spirits); beeswax and paraffin wax.

Indian Imports of Isoniazid.—Established importers of drugs in India are advised in "Public Notice No. 96—I.T.C. P.N.)/52" how they may import isoniazid.

TRADE

Not more than 10 per cent. of the licence may be used to import the drug in tablet form. Special consideration will be given to those importers who are able to get the goods at the lowest price. Other things being equal, preference will be given to those who wish to import basic raw materials instead of intermediates. Isoniazid is to be available to the public on presentation of a prescription. The containers, whether imported or home-produced, must be labelled: "Caution. It is dangerous to take this preparation except under medical supervision."

Prices in India "Too High."—The Indian Commerce Minister has warned foreign pharmaceutical firms that their charges are too high and that they are making too much profit out of the country. "If there is one trade where I would like to take action quickly it is this trade," he told the Chemists and Druggists Association of Madras. Newcomers should go first. It may be an English firm, a Swiss firm or an American firm. It does not much matter. They had better take a warning."—A number of members of the Indian chemical industry are considering the formation of a purchasing commission to secure bulk licences for imports of raw materials. Bulk purchases, they believe, will be more economical than imports by individual concerns.

COMING EVENTS

Monday, October 6

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND, 73 University Street, Belfast, at 7.45 p.m. Annual meeting.

NATIONAL CHAMBER OF TRADE, Floral Hall, Morecambe, autumn conference (open sessions until October 7).

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, The Whim Tea Lounge, 258 High Street, Beckenham, Kent, 8 p.m. Members' symposium.

WOLVERHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Y.M.C.A. Lounge, Stafford Street, Wolverhampton, at 7.30 p.m. Lecture and film show under the auspices of Poly Tours, Ltd.: "A Visit to Paris and Lucerne."

Tuesday, October 7

BIRMINGHAM PHARMACEUTICAL ASSOCIATION and BRANCH, Grand Hotel, Birmingham, at 8 p.m. Mr. G. Billington (Birmingham City Coroner) on "The Coroner and his Court."

CHADWICK PUBLIC LECTURE, Royal Society of Tropical Medicine and Hygiene, 26 Portland Place, London, W.1, at 5.30 p.m. Dr. H. E. Magee (senior medical officer, Ministry of Health) on "Food as a Health Factor."

EXETER BRANCH, NATIONAL PHARMACEUTICAL UNION, Rougemont Hotel, Queen Street, Exeter, at 7.30 p.m. Mr. R. H. Kemp (secretary, Chemists Federation) on "A Policy for Retail Pharmacy."

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Church, College Road, Harrow, at 7.45 p.m. Lectures and demonstrations on "Cosmetics and the Pharmacist," under the auspices of Richard Hudnut, Ltd.

LADIES' SECTION, LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Great Northern Hotel, Leeds, at 7.45 p.m. Mr. T. Heseltine (vice-president of the Pharmaceutical Society) on "Matters of Moment in Pharmacy."

READING BRANCH, PHARMACEUTICAL SOCIETY, Biological Laboratories, Reading School (Addington Road entrance), at 7.45 p.m. Dr. G. Somers on "Pharmacology, its Aims and Methods."

SOUTH-EAST LONDON CHEMISTS' ASSOCIATION and BRANCH, The Plough, Lewisham, London, S.E.13, at 7.30 p.m. Mr. H. Cormace showing own ciné colour film "Switzerland, June, 1951."

Wednesday, October 8

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Inaugural meeting and presentation of prizes. Professor Stanley Alstead on "The Pharmacist and Clinical Science."

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Belle Vue Hotel, Northdown Road, Cliftonville, at 8 p.m. Mr. F. C. Wilson (a member of the Society's Council) on "The Professional Conscience."

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, visit to factory of Bourjois, Ltd. Coach leaves Angerstein Road, North End, Portsmouth, at 1.15 p.m..

Thursday, October 9

BRISTOL BRANCHES, PHARMACEUTICAL SOCIETY and NATIONAL PHARMACEUTICAL UNION, Board Room, Guildhall, Small Street, Bristol, 1, at 7.15 p.m. Mr. H. Noble (secretary, N.P.U.) on "Pharmacy Today and Tomorrow."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY and WALTHAMSTOW PHARMACEUTICAL ASSOCIATION, Dane Court, Church Hill, Walthamstow, London, E.17, at 6 p.m. tea. At p.m. Mr. F. C. Wilson (a member of the Society's Council) on "The Professional Code of Ethics"; and discussion on the Code of Ethics.

EPSOM AND SUTTON BRANCH, PHARMACEUTICAL SOCIETY, Pavement Café, Grove Road, Sutton, 7.45 p.m. Miss Bedford (Coty, Ltd.) on "P fumes," and make-up demonstration.

LEEDS BRANCH, PHARMACEUTICAL SOCIETY, Metropole Hotel, Leeds, at 7.30 p.m. Social evening.

THE LONDON NURSING EXHIBITION is being held at the Seymour Hall, London, W.1. October 13-19.

TRADE MARKS

From the "Trade Marks Journal," September 1952

For agricultural and horticultural chemicals (1) MANOXYLATE, 702,550, by Hardman & Holden, Ltd., Manchester.

For industrial chemicals (1) MICOL, 708,786, by Milton Antiseptic, Ltd., London, N.7.

For photographic chemicals (1) EKTONOL, 709,590, by Kodak, Ltd., London, W.C.2.

For perfumes and non-medicated toilet preparations (3) STRIPES, B706,884, by Crystal Products Ltd., Surbiton.

For hand-cleansing pastes (3) SKIF, 708,403, by Wimsol, Ltd., Keighley.

For all goods (3) REEF, 709,336, by Lifeguard Products, Ltd., London, E.14.

For medicated preparations (5) HEALTHGATE, B708,251, by E. Wilson Co. tam, Bedford.

For pharmaceutical preparations (5) MARRATONE, 707,435, by John Wilson, Glasgow. ETHORAL, 708,440, by Paines & Byrne, Ltd., Greenford. SULPHOSE, 708,484, by Wyeth, Inc., Philadelphia, U.S.A. GLUKOBEN, MOSATIL, 708,044-709,160, by Farberbricken Bayer, Leverkusen, Germany. PROPL, 709,381, by Ashe Laboratories, Ltd., Leathhead. VERDIVITON, 709,415, by E. R. Squibb & Sons, London, W.1.

For all goods (5) ALTEPOSE, 708,410, by Sharp & Dohme, London, Hoddesdon, Herts. CEBETINIC, 709,249, Upjohn of England, Ltd., London, E.C.2.

For ointments being pharmaceutical or veterinary preparations (5) ANABALM, 708,428, by the Crookes Laboratories, Ltd., London, N.W.10.

For pharmaceutical antibacterial preparations CRYSTIFOR, PENDISTRIN, 709,408-11, by E. R. Squibb & Sons, London, W.1.

For medicated confectionery (5) Device of man holding umbrella in rain, 709, by Rowntree & Co., Ltd., York.

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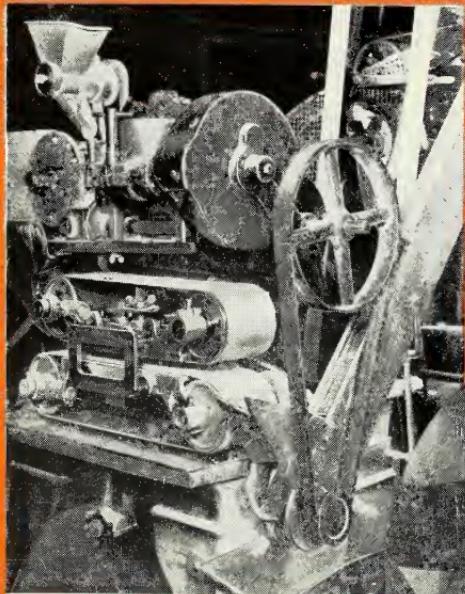
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